

For Jan Belovar

Access DB#

114375

## SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Sabiba Qazz Examiner #: 74141 Date: 2/10/04  
Art Unit: 1616 Phone Number 30-0622 Serial Number: 101049980  
Mail Box and Bldg/Room Location: 4C7A Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Fungicides

Inventors (please provide full names): Tracey Cook et al.

Earliest Priority Filing Date: 8/18/99 PCT/EP00/08268

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

RECEIVED  
9 13 2004  
STIC

Please search for the compounds of Cl 1  
Elected sp. is comp 102

A' - L - Az

Please attached sheets

Thank you

### STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>Jan</u>	NA Sequence (#) <u>      </u>	STN <u>✓</u>
Searcher Phone #: <u>22504</u>	AA Sequence (#) <u>      </u>	Dialog <u>      </u>
Searcher Location: <u>      </u>	Structure (#) <u>✓</u>	Questel/Orbit <u>      </u>
Date Searcher Picked Up: <u>2/19</u>	Bibliographic <u>      </u>	Dr. Link <u>      </u>
Date Completed: <u>2/19</u>	Litigation <u>      </u>	Lexis/Nexis <u>      </u>
Searcher Prep & Review Time: <u>      </u>	Fulltext <u>      </u>	Sequence Systems <u>      </u>
Clerical Prep Time: <u>30 + 60</u>	Patent Family <u>      </u>	WWW/Internet <u>      </u>
Online Time: <u>      </u>	Other <u>      </u>	Other (specify) <u>      </u>

=> fil reg

FILE 'REGISTRY' ENTERED AT 17:45:25 ON 19 FEB 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 18 FEB 2004 HIGHEST RN 651705-73-6

DICTIONARY FILE UPDATES: 18 FEB 2004 HIGHEST RN 651705-73-6

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

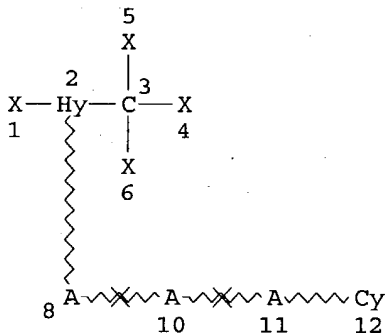
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d sta que l15

L1 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

GGCAT IS MCY UNS AT 2

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS E5 C E1 N AT 2

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

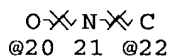
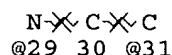
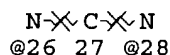
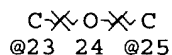
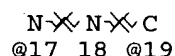
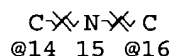
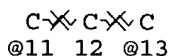
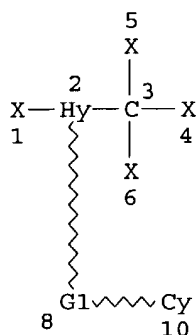
NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

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L4 1334 SEA FILE=REGISTRY SUB=L2 SSS FUL L1

L5 STR



VAR G1=11-2 13-10/14-2 16-10/17-2 19-10/20-2 22-10/23-2 25-10/26-2 28-10/29-2 31-10/19-2 17-10

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GGCAT IS MCY UNS AT 2

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS E5 C E1 N AT 2

GRAPH ATTRIBUTES:

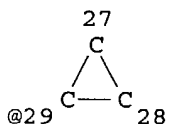
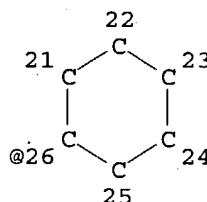
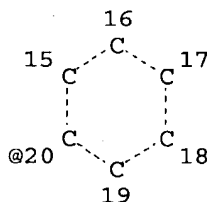
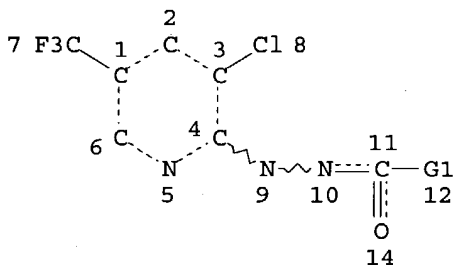
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE

L7 1166 SEA FILE=REGISTRY SUB=L4 SSS FUL L5

L8 STR



VAR G1=20/26/29

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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 15 21

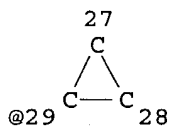
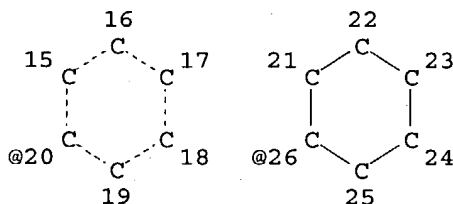
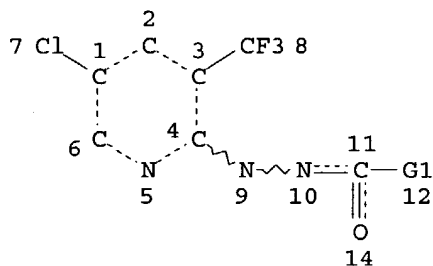
NUMBER OF NODES IS 28

STEREO ATTRIBUTES: NONE

Table pages  
24/25

L9

STR



VAR G1=20/26/29

NODE ATTRIBUTES:

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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 15 21

NUMBER OF NODES IS 28

STEREO ATTRIBUTES: NONE

L12 38 SEA FILE=REGISTRY SUB=L7 SSS FUL (L8 OR L9)

L13 35 SEA FILE=REGISTRY ABB=ON PLU=ON L12 AND 2/NR

L14 3 SEA FILE=REGISTRY ABB=ON PLU=ON L13 AND C13H7CL3F3N3O

L15 1 SEA FILE=REGISTRY ABB=ON PLU=ON L14 AND 326807-66-3/BI

=&gt; d ide can l15.

L15 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 326807-66-3 REGISTRY

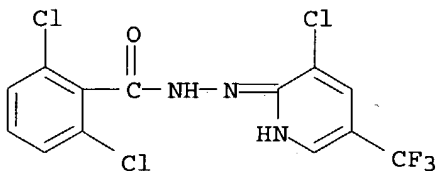
CN Benzoic acid, 2,6-dichloro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C13 H7 Cl3 F3 N3 O

SR CA

LC STN Files: CA, CAPLUS, CHEMCATS



Species

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

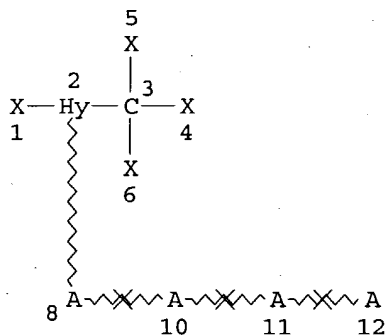
1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

=&gt; d sta que 146

L2 925618 SEA FILE=REGISTRY ABB=ON PLU=ON 46.156.30/RID AND NR>=2  
 L44 STR



## NODE ATTRIBUTES:

NSPEC IS R AT 12  
 DEFAULT MLEVEL IS ATOM  
 GGCAT IS MCY UNS AT 2  
 DEFAULT ECLEVEL IS LIMITED  
 ECOUNT IS E5 C E1 N AT 2

## GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 10

## STEREO ATTRIBUTES: NONE

L46 8306 SEA FILE=REGISTRY SUB=L2 SSS FUL L44

100.0% PROCESSED 34867 ITERATIONS  
 SEARCH TIME: 00.00.01

8306 ANSWERS

=&gt; d his

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 SET COST OFF

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 L4 1334 S L1 FUL SUB=L2  
 SAV L4 QAZI049/A  
 L5 STR L1  
 L6 50 S L5 SAM SUB=L4  
 L7 1166 S L5 FUL SUB=L4  
 SAV L7 QAZI049A/A  
 L8 STR  
 L9 STR L8  
 L10 0 S L8 SAM SUB=L7  
 L11 2 S L9 SAM SUB=L7  
 L12 38 S (L8 OR L9) FUL SUB=L7  
 SAV L12 QAZI049B/A  
 L13 35 S L12 AND 2/NR  
 L14 3 S L13 AND C13H7CL3F3N3O  
 SEL RN 2  
 L15 1 S L14 AND E1  
 L16 34 S L13 NOT L15

L17 12 S L7 AND 13/C AND 3/CL AND 3/F AND 3/N AND 1/O AND 2/NR  
L18 7 S L17 AND C6/ES  
L19 4 S L18 NOT L14

FILE 'HCAOLD' ENTERED AT 17:30:56 ON 19 FEB 2004

L20 0 S L15

FILE 'USPATFULL, USPAT2' ENTERED AT 17:31:01 ON 19 FEB 2004

L21 0 S L15

FILE 'HCAPLUS' ENTERED AT 17:31:08 ON 19 FEB 2004

L22 1 S L15  
E COOKE T/AU  
L23 74 S E3-E12,E34,E35  
E HARDY D/AU  
L24 214 S E3-E18,E23-E34  
E MOLONEY B/AU  
L25 16 S E5-E7  
E O MAHONY M/AU  
L26 41 S E3,E5,E10,E11  
E OMAHONY M/AU  
E MAHONY M/AU  
L27 9 S E3,E5  
E PETTETT M/AU  
L28 6 S E4-E6  
E PATEL G/AU  
L29 412 S E3-E19  
L30 13 S E59-E61  
E SCHNATTERER S/AU  
L31 16 S E4  
E AVENTIS/PA,CS  
L32 1977 S E3,E4  
L33 2 S L13  
L34 4 S L12  
L35 1 S L23-L32 AND L33  
L36 1 S L23-L32 AND L34  
L37 1 S (WO2000-EP8268 OR GB99-19558)/AP,PRN  
L38 1 S L23-L36 AND L37  
SEL RN

FILE 'REGISTRY' ENTERED AT 17:35:57 ON 19 FEB 2004

L39 214 S E1-E214  
L40 180 S L39 AND L4  
L41 180 S L7 AND L40  
L42 34 S L39 NOT L41  
L43 STR L1  
L44 STR L43  
L45 50 S L44 SAM SUB=L2  
L46 8306 S L44 FUL SUB=L2  
SAV L46 QAZI049C/A  
L47 190 S L39 AND L46  
L48 24 S L39 NOT L47  
L49 1 S L48 AND IDS/CI  
L50 191 S L47,L49  
L51 190 S L50 NOT L15

FILE 'HCAPLUS' ENTERED AT 17:41:47 ON 19 FEB 2004

L52 3 S L51  
L53 2 S L23-L32 AND L52  
L54 3 S L52,L53  
L55 3 S L33,L34 NOT L22  
L56 5 S L52-L55

FILE 'REGISTRY' ENTERED AT 17:45:25 ON 19 FEB 2004

=&gt; fil hcaplus

FILE 'HCAPLUS' ENTERED AT 17:45:58 ON 19 FEB 2004

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FILE COVERS 1907 - 19 Feb 2004 VOL 140 ISS 8

FILE LAST UPDATED: 18 Feb 2004 (20040218/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=&gt; d all hitstr l22

L22 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:137193 HCAPLUS

DN 134:178467

ED Entered STN: 25 Feb 2001

TI Preparation of pyridine derivatives as phytopathogenic fungicides

IN Cooke, Tracey; Hardy, David; Moloney, Brian Anthony; O'Mahony, Mary Josephine; Pettett, Michael George; Patel, Gita; Schnatterer, Stefan

PA Aventis CropScience GmbH, Germany

SO PCT Int. Appl., 57 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07D213-61

ICS C07D213-89; C07D405-12; C07D213-77; C07D401  
C07D213-64; C07D409-12; C07D417-12; C07D498

A01N043-40

CC 27-16 (Heterocyclic Compounds (One Hetero Atom))

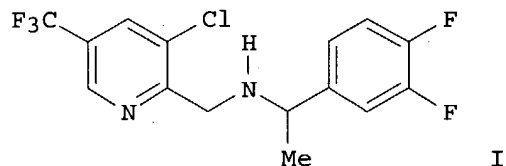
Section cross-reference(s): 5

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001012604	A1	20010222	WO 2000-EP8268	20000811
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	BR 2000013369	A	20020507	BR 2000-13369	20000811
	EP 1204642	A1	20020515	EP 2000-954651	20000811
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, MC, IE, SI, LT, LV, FI, RO, MK, CY, AL			

One ref.  
for species

JP 2003507368 T2 20030225 JP 2001-517502 20000811  
 PRAI GB 1999-19558 A 19990818  
 WO 2000-EP8268 W 20000811  
 OS MARPAT 134:178467  
 GI



AB The title compds. A1LA2 [A1 = (un)substituted 2-pyridyl or its N-oxide; Ar2 = (un)substituted heterocyclyl, carbocyclyl; L = a 3-atom linker selected from CHR1NR3CHR2, NR3NR4C:X, C:XNR3CHR1, etc. (wherein A1 is attached to the left hand side of linker L); R1, R2 = CN, NO2, halo, etc.; R3, R4 = CN, NO2, alkyl, etc.; any of R1-R4, together with the interconnecting atoms, can form a 5-6 membered ring with any other R1-R4, or any R1-R4, together with the interconnecting atoms can form a 5-6 membered ring with A2; X = O, S, N(alkyl), etc.], useful as phytopathogenic fungicides, were prepared Thus, reacting 1-(3,4-difluorophenyl)-1-ethanamine with 3-chloro-5-(trifluoromethyl)pyridine-2-carboxaldehyde in the presence of Et3N in CH(OMe)3 followed by addition of NaBH3CN/THF and AcOH afforded the title compound I which showed moderate to total control against Leptosphaeria nodorum at 500 ppm or less.

ST pyridine prepn agrochem fungicide  
 IT Fungicides

(agrochem.; preparation of pyridine derivs. as phytopathogenic fungicides)

IT 326807-13-0P 326808-86-0P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of pyridine derivs. as phytopathogenic fungicides)

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326809-01-2P	326809-02-3P	326809-03-4P	326809-04-5P	326809-05-6P
326809-06-7P	326809-07-8P	326812-96-8P		

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of pyridine derivs. as phytopathogenic fungicides)

IT 86-55-5, 1-Naphthoic acid 89-98-5, 2-Chlorobenzaldehyde 118-91-2, 2-Chlorobenzoic acid 608-31-1, 2,6-Dichloroaniline 614-21-1, 2-Nitroacetophenone 1777-82-8, 2,4-Dichlorobenzyl alcohol 3034-19-3, 2-Nitrophenylhydrazine 3886-69-9 4659-45-4, 2,6-Dichlorobenzoyl chloride 69045-84-7, 2,3-Dichloro-5-trifluoromethylpyridine 70591-20-7, [(Diphenylmethylene)amino]methyl cyanide 75408-89-8, 4-Acetylbiphenyl oxime 79456-26-1, 2-Amino-3-chloro-5-trifluoromethylpyridine 89570-82-1 118386-83-7 175277-50-6, 3-Chloro-5-trifluoromethylpyridine-2-carboxaldehyde 175277-52-8, 3-Chloro-2-(chloromethyl)-5-trifluoromethylpyridine 276875-21-9, 1-(3,4-Difluorophenyl)-1-ethanamine 326809-08-9 326809-09-0 326809-10-3, 2-(3-Bromo-4-methoxyphenyl)-1H-imidazole

RL: RCT (Reactant); RACT (Reactant or reagent)

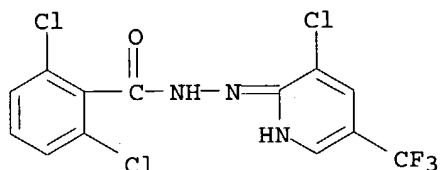
(preparation of pyridine derivs. as phytopathogenic fungicides)

RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Agrevo Uk Ltd; GB 2307177 A 1997 HCAPLUS
- (2) Agrevo Uk Ltd; WO 9907687 A 1999 HCAPLUS
- (3) Anon; PATENT ABSTRACTS OF JAPAN 1983, V007(114), PC-166
- (4) Anon; PATENT ABSTRACTS OF JAPAN 1989, V013(379), PC-628
- (5) Anon; PATENT ABSTRACTS OF JAPAN 1990, V014(310), PC-0736
- (6) Anon; PATENT ABSTRACTS OF JAPAN 1992, V016(148), PC-0928
- (7) Anon; PATENT ABSTRACTS OF JAPAN 1995, V1995(04)
- (8) Basf Ag; EP 0350691 A 1990 HCAPLUS
- (9) Basf Ag; WO 9710215 A 1997 HCAPLUS
- (10) Bayer Ag; EP 0573883 A 1993 HCAPLUS
- (11) Briggs, G; WO 9850352 A 1998 HCAPLUS
- (12) Ciba Geigy Ag; EP 0288976 A 1988 HCAPLUS
- (13) Ciba Geigy Ag; EP 0577555 A 1994 HCAPLUS
- (14) Dow Chemical Co; GB 2068365 A 1981 HCAPLUS
- (15) Dow Chemical Co; EP 0287691 A 1988 HCAPLUS
- (16) Hamprecht, G; WO 9842671 A 1998 HCAPLUS
- (17) Ihara Chemical Ind Co; EP 0648752 A 1995 HCAPLUS
- (18) Ishihara Sangyo Kaisha Ltd; JP 02104575 A 1990 HCAPLUS
- (19) Ishihara Sangyo Kaisha Ltd; JP 07025853 A 1995 HCAPLUS
- (20) Ishihara Sangyo Kk; JP 58035174 A 1983 HCAPLUS
- (21) Kyowa Hakko Kogyo Kk; EP 0882717 A 1998 HCAPLUS
- (22) La Roche, H; EP 0270061 A 1988 HCAPLUS
- (23) Minn; HCAPLUS
- (24) Minn; SYNLETT 1991, 2, P115 HCAPLUS
- (25) Mitsubishi Petrochem Co Ltd; JP 04005282 A 1992 HCAPLUS
- (26) Mitsui Petrochem Ind Ltd; JP 01131146 A 1989 HCAPLUS
- (27) Moloney Brian Anthony; WO 9942447 A 1999 HCAPLUS
- (28) Sumitomo Chemical Co; EP 0469711 A 1992 HCAPLUS

(29) Sumitomo Chemical Co; EP 0648729 A 1995 HCAPLUS  
 (30) Uniroyal Chem Co Inc; WO 9207848 A 1992 HCAPLUS  
 IT 326807-66-3P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of pyridine derivs. as phytopathogenic fungicides)  
 RN 326807-66-3 HCAPLUS  
 CN Benzoic acid, 2,6-dichloro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



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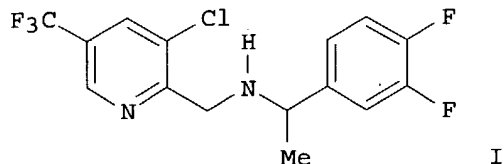
L56 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2001:137193 HCAPLUS  
 DN 134:178467  
 ED Entered STN: 25 Feb 2001  
 TI Preparation of pyridine derivatives as phytopathogenic fungicides  
 IN Cooke, Tracey; Hardy, David; Moloney, Brian  
 Anthony; O'Mahony, Mary Josephine; Pettett, Michael  
 George; Patel, Gita; Schnatterer, Stefan  
 PA Aventis CropScience GmbH, Germany  
 SO PCT Int. Appl., 57 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM C07D213-61  
 ICS C07D213-89; C07D405-12; C07D213-77; C07D401-12  
 C07D213-64; C07D409-12; C07D417-12; C07D498-04  
 A01N043-40  
 CC 27-16 (Heterocyclic Compounds (One Hetero Atom))  
 Section cross-reference(s): 5

Oct - EP00-8268

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001012604	A1	20010222	WO 2000-EP8268	20000811
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
BR 2000013369	A	20020507	BR 2000-13369	20000811
EP 1204642	A1	20020515	EP 2000-954651	20000811
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, MC, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003507368	T2	20030225	JP 2001-517502	20000811
PRAI GB 1999-19558	A	19990818		
WO 2000-EP8268	W	20000811		

OS MARPAT 134:178467  
GI



- AB The title compds. A1LA2 [A1 = (un)substituted 2-pyridyl or its N-oxide; Ar2 = (un)substituted heterocyclyl, carbocyclyl; L = a 3-atom linker selected from CHR1NR3CHR2, NR3NR4C:X, C:XNR3CHR1, etc. (wherein A1 is attached to the left hand side of linker L); R1, R2 = CN, NO2, halo, etc.; R3, R4 = CN, NO2, alkyl, etc.; any of R1-R4, together with the interconnecting atoms, can form a 5-6 membered ring with any other R1-R4, or any R1-R4, together with the interconnecting atoms can form a 5-6 membered ring with A2; X = O, S, N(alkyl), etc.], useful as phytopathogenic fungicides, were prepared Thus, reacting 1-(3,4-difluorophenyl)-1-ethanamine with 3-chloro-5-(trifluoromethyl)pyridine-2-carboxaldehyde in the presence of Et3N in CH(OMe)3 followed by addition of NaBH3CN/THF and AcOH afforded the title compound I which showed moderate to total control against Leptosphaeria nodorum at 500 ppm or less.
- ST pyridine prepn agrochem fungicide
- IT Fungicides  
(agrochem.; preparation of pyridine derivs. as phytopathogenic fungicides)
- IT 326807-13-0P 326808-86-0P  
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
(preparation of pyridine derivs. as phytopathogenic fungicides)
- IT 116389-04-9P 326476-24-8P 326807-14-1P  
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326807-21-0P 326807-22-1P 326807-23-2P  
326807-24-3P 326807-25-4P 326807-26-5P  
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 326809-05-6P 326809-06-7P 326809-07-8P  
 326812-96-8P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of pyridine derivs. as phytopathogenic fungicides)

IT 86-55-5, 1-Naphthoic acid 89-98-5, 2-Chlorobenzaldehyde 118-91-2,  
 2-Chlorobenzoic acid 608-31-1, 2,6-Dichloroaniline 614-21-1,  
 2-Nitroacetophenone 1777-82-8, 2,4-Dichlorobenzyl alcohol 3034-19-3,  
 2-Nitrophenylhydrazine 3886-69-9 4659-45-4, 2,6-Dichlorobenzoyl  
 chloride 69045-84-7, 2,3-Dichloro-5-trifluoromethylpyridine  
 70591-20-7, [(Diphenylmethylene)amino]methyl cyanide 75408-89-8,  
 4-Acetylbiphenyl oxime 79456-26-1, 2-Amino-3-chloro-5-  
 trifluoromethylpyridine 89570-82-1 118386-83-7 175277-50-6,  
 3-Chloro-5-trifluoromethylpyridine-2-carboxaldehyde 175277-52-8,  
 3-Chloro-2-(chloromethyl)-5-trifluoromethylpyridine 276875-21-9,  
 1-(3,4-Difluorophenyl)-1-ethanamine 326809-08-9 326809-09-0  
 326809-10-3, 2-(3-Bromo-4-methoxyphenyl)-1H-imidazole

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of pyridine derivs. as phytopathogenic fungicides)

RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 RE

- (1) Agrevo Uk Ltd; GB 2307177 A 1997 HCAPLUS
- (2) Agrevo Uk Ltd; WO 9907687 A 1999 HCAPLUS
- (3) Anon; PATENT ABSTRACTS OF JAPAN 1983, V007(114), PC-166
- (4) Anon; PATENT ABSTRACTS OF JAPAN 1989, V013(379), PC-628
- (5) Anon; PATENT ABSTRACTS OF JAPAN 1990, V014(310), PC-0736
- (6) Anon; PATENT ABSTRACTS OF JAPAN 1992, V016(148), PC-0928

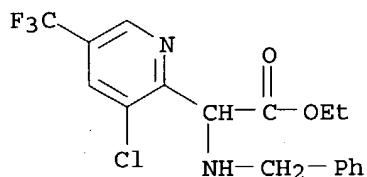
- (7) Anon; PATENT ABSTRACTS OF JAPAN 1995, V1995(04)
- (8) Basf Ag; EP 0350691 A 1990 HCAPLUS
- (9) Basf Ag; WO 9710215 A 1997 HCAPLUS
- (10) Bayer Ag; EP 0573883 A 1993 HCAPLUS
- (11) Briggs, G; WO 9850352 A 1998 HCAPLUS
- (12) Ciba Geigy Ag; EP 0288976 A 1988 HCAPLUS
- (13) Ciba Geigy Ag; EP 0577555 A 1994 HCAPLUS
- (14) Dow Chemical Co; GB 2068365 A 1981 HCAPLUS
- (15) Dow Chemical Co; EP 0287691 A 1988 HCAPLUS
- (16) Hamprecht, G; WO 9842671 A 1998 HCAPLUS
- (17) Ihara Chemical Ind Co; EP 0648752 A 1995 HCAPLUS
- (18) Ishihara Sangyo Kaisha Ltd; JP 02104575 A 1990 HCAPLUS
- (19) Ishihara Sangyo Kaisha Ltd; JP 07025853 A 1995 HCAPLUS
- (20) Ishihara Sangyo Kk; JP 58035174 A 1983 HCAPLUS
- (21) Kyowa Hakko Kogyo Kk; EP 0882717 A 1998 HCAPLUS
- (22) La Roche, H; EP 0270061 A 1988 HCAPLUS
- (23) Minn; HCAPLUS
- (24) Minn; SYNLETT 1991, 2, P115 HCAPLUS
- (25) Mitsubishi Petrochem Co Ltd; JP 04005282 A 1992 HCAPLUS
- (26) Mitsui Petrochem Ind Ltd; JP 01131146 A 1989 HCAPLUS
- (27) Moloney Brian Anthony; WO 9942447 A 1999 HCAPLUS
- (28) Sumitomo Chemical Co; EP 0469711 A 1992 HCAPLUS
- (29) Sumitomo Chemical Co; EP 0648729 A 1995 HCAPLUS
- (30) Uniroyal Chem Co Inc; WO 9207848 A 1992 HCAPLUS

IT 326807-13-0P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
(preparation of pyridine derivs. as phytopathogenic fungicides)

RN 326807-13-0 HCAPLUS

CN 2-Pyridineacetic acid, 3-chloro- $\alpha$ -[(phenylmethyl)amino]-5-(trifluoromethyl)-, ethyl ester (9CI) (CA INDEX NAME)



=> d 156 all 2-5 hitstr

L56 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2001:136944 HCAPLUS  
 DN 134:174247  
 ED Entered STN: 25 Feb 2001  
 TI Preparation of fungicidal nitrogen compounds.  
 IN Cooke, Tracey; Ekwuru, Tennyson; Hardy, David;  
 Millward, Peter; Moloney, Brian; Pettinger, Andrew; Thomas,  
 Peter Stanley; Turner, Richar Michael  
 PA Aventis CropScience GmbH, Germany  
 SO PCT Int. Appl., 42 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM A01N043-40  
 ICS A01N043-82; A01N043-80; A01N043-54; A01N043-56; A01N043-90;

A01N043-50; A01N043-78; A01N043-42; A01N043-60; A01N053-00;  
A01N047-38; A01N047-40; A01N047-24

CC 5-2 (Agrochemical Bioregulators)

Section cross-reference(s): 27

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001011966	A1	20010222	WO 2000-EP8269	20000811
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	BR 2000013367	A	20020507	BR 2000-13367	20000811
	EP 1204322	A1	20020515	EP 2000-956481	20000811
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL			
	JP 2003506466	T2	20030218	JP 2001-516329	20000811
	US 6630495	B1	20031007	US 2002-49981	20020722
PRAI	GB 1999-19588	A	19990818		
	WO 2000-EP8269	W	20000811		
OS	MARPAT 134:174247				
AB	The fungicidal nitrogen compds. A1CR1R2NR3LA2 and A1CR1R2N:CYA2 [A1 = (un)unsubstituted 2-pyridyl or its N-oxide; A2 = (un)substituted heterocyclyl or carbocyclyl; R1, R2 = alkyl, alkenyl, cyano, nitro, halo, etc.; L = CO, CS, SO2, etc., Y = halo, alkoxy, alkylthio, etc.] are prepared				
ST	fungicide nitrogen compd prepn				
IT	6635-41-2P, 2-Nitrobenzaldehyde		35447-75-7P	326476-24-8P	
	326476-25-9P	326476-26-0P	326476-48-6P	326476-84-0P	
	RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)				
	(intermediate in preparation of amide fungicide)				
IT	164341-60-0P	326475-66-5P	326475-67-6P	326475-68-7P	326475-69-8P
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	326475-75-6P	326475-76-7P	326475-77-8P	326475-78-9P	326475-79-0P
	326475-80-3P	326475-81-4P	326475-82-5P	326475-83-6P	326475-84-7P
	326475-85-8P	326475-86-9P	326475-87-0P	326475-88-1P	326475-89-2P
	326475-90-5P	326475-91-6P	326475-92-7P	326475-93-8P	326475-94-9P
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	RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)				

(preparation as fungicide)

IT 106-95-6, Allyl bromide, reactions 552-89-6, 2-Nitrobenzaldehyde  
 5470-11-1, Hydroxylamine hydrochloride 16024-82-1 39920-37-1,  
 2,6-Dichlorophenyl isocyanate 68182-81-0 69045-84-7,  
 2,3-Dichloro-5-trifluoromethylpyridine 70591-20-7,  
 (Diphenyl)methyleneaminoacetonitrile 154142-60-6 175277-74-4  
 239112-70-0 326476-49-7 326477-10-5

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reactant in preparation of amide fungicide)

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

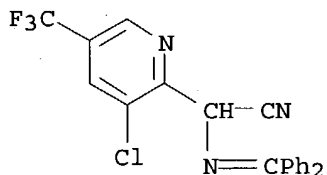
- (1) Agrevo Uk Ltd; WO 9907687 A 1999 HCAPLUS
- (2) Ash, M; US 4423222 A 1983 HCAPLUS
- (3) Bayer Ag; EP 0334138 A 1989 HCAPLUS
- (4) Bayer Ag; WO 9708135 A 1997 HCAPLUS
- (5) Dainippon; JP 08-208615 A 1996 HCAPLUS
- (6) Mitsubishi; JP 07-173139 A 1995 HCAPLUS
- (7) Mitsubishi Chem Corp; EP 0726266 A 1996 HCAPLUS
- (8) Mitsubishi Chem Ind; EP 0329020 A 1989 HCAPLUS
- (9) Moloney, B; WO 9942447 A 1999 HCAPLUS
- (10) Takeda Chemical Industries Ltd; EP 0404190 A 1990 HCAPLUS
- (11) Tokuyama, S; JP 64-003162 A 1989 HCAPLUS
- (12) Torba, F; US 3609158 A 1971 HCAPLUS

IT 326476-24-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (intermediate in preparation of amide fungicide)

RN 326476-24-8 HCAPLUS

CN 2-Pyridineacetonitrile, 3-chloro- $\alpha$ -[(diphenylmethylene)amino]-5-  
 (trifluoromethyl)- (9CI) (CA INDEX NAME)



L56 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1994:217743 HCAPLUS

DN 120:217743

ED Entered STN: 30 Apr 1994

TI Preparation of azinylhydroxybenzamides as herbicides and plant growth  
 regulators

IN Luethy, Christoph; Fisher, Raymond

PA Ciba-Geigy A.-G., Switz.

SO PCT Int. Appl., 63 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07D239-52

ICS A01N043-54; C07D403-12; C07D413-12; C07D409-12; C07D251-46;  
 C07D239-60

CC 28-19 (Heterocyclic Compounds (More Than One Hetero Atom))

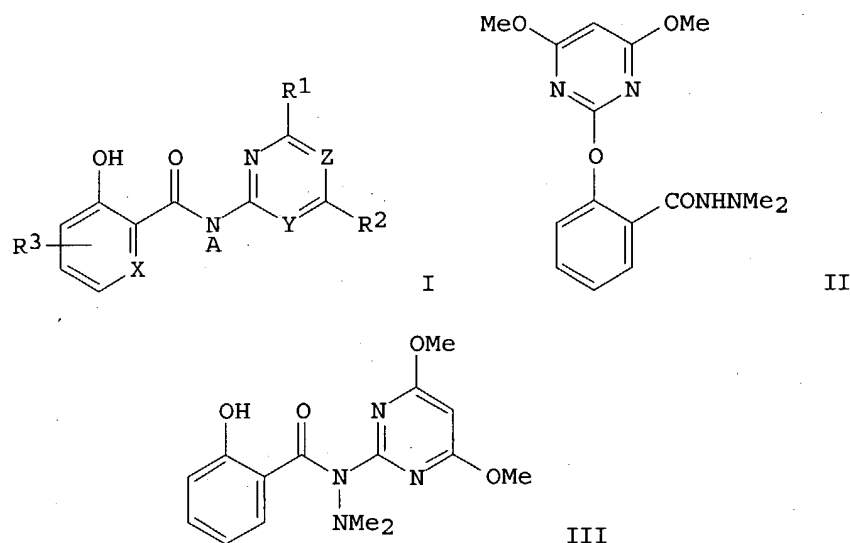
Section cross-reference(s): 5

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9324468	A1	19931209	WO 1993-EP1264	19930521

W: AU, BB, BG, BR, BY, CA, CZ, FI, HU, JP, KP, KR, KZ, LK, MG, MN,  
MW, NO, NZ, PL, RO, RU, SD, SK, UA, US, VN  
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE,  
BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

AU 9343146 A1 19931230 AU 1993-43146 19930521  
ZA 9303815 A 19931230 ZA 1993-3815 19930601  
PRAI CH 1992-1771 19920602  
WO 1993-EP1264 19930521  
OS MARPAT 120:217743  
GI



AB Title compds. [I; A = H, NR5R6, N:R7R8, OR9; X = N, CR4; Y = N, or if Z = N, may also = methine, fluoromethine, chloromethine; R1 = alkyl, alkynyl, cyclopropyl, chloromethyl, F2CH, F3C, MeO, EtO, alkylamino, Me2N, etc.; R2 = H, Me, F, Cl, alkoxy, difluoromethoxy, trifluoroethoxy, MeS, EtS; R3 = H, F, Cl, Me, MeO, EtO; R4 = H, F, Cl, Br, iodo, alkyl, CF3, vinyl, alkoxy, 2-propenyloxy, 2-propynyloxy, benzyloxy, PhO, triazolyl, thienyl, pyrazolyl, thienyl, etc.; R5 = H, alkyl; R6 = H, (substituted) alkyl, Ph, naphthyl, pyridyl, quinolyl, alkylcarbonyl, PhCO, alkylsulfonyl, PhSO2, etc.; R5R6N = (substituted) heterocyclyl; R7 = H, alkyl, alkylthio; R8 = alkyl, cycloalkyl, (substituted) Ph, alkoxy, alkylthio, alkoxy carbonyl, cyano; R7R8 = (CH2)4-5, SCH2CH2S; R9 = H, alkyl, alkenyl, alkynyl, carboxyalkyl, alkoxy carbonylalkyl, (substituted) PhCH2, Ph], were prepared. Thus, ether II was stirred with NaH in THF to give title compound III. Several I at 3 kg/ha preemergent gave 80-100% control of Echinochloa crus-galli, Avena fatua, Abutilon theoplasti, etc.

ST azinylhydroxybenzamide prepn herbicide; plant growth regulator

IT azinylhydroxybenzamide

IT Herbicides

(azinylhydroxybenzamides)

IT Plant hormones and regulators

RL: RCT (Reactant); RACT (Reactant or reagent)

(azinylhydroxybenzamides)

IT	153908-90-8P	153908-91-9P	153908-92-0P	153908-93-1P	153908-94-2P
	153908-95-3P	153908-96-4P	153908-97-5P	153908-98-6P	153908-99-7P
	153909-00-3P	153909-01-4P	153909-02-5P	153909-03-6P	153909-04-7P
	153909-05-8P	153909-06-9P	153909-07-0P	153909-08-1P	153909-09-2P
	153909-10-5P	153909-11-6P	153909-12-7P	153909-13-8P	



153909-14-9P 153909-15-0P 153909-16-1P 153909-17-2P 153909-18-3P  
 153909-19-4P 153909-20-7P 153909-21-8P 153909-22-9P 153909-23-0P  
 153909-24-1P 153909-25-2P 153909-26-3P 153909-27-4P 153909-28-5P  
 153909-29-6P 153909-30-9P 153909-31-0P 153909-32-1P 153909-61-6P  
 153909-62-7P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of, as herbicide and plant growth regulator)

IT 141112-44-9P 141112-46-1P 141112-49-4P 141112-50-7P 141112-51-8P  
 141112-54-1P 141112-55-2P 141112-66-5P 141112-68-7P 141112-72-3P  
 141112-86-9P 141112-88-1P 144078-96-6P 153909-33-2P 153909-34-3P  
 153909-35-4P 153909-36-5P 153909-37-6P 153909-38-7P 153909-39-8P  
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 153909-45-6P 153909-46-7P 153909-47-8P 153909-48-9P 153909-49-0P  
 153909-50-3P 153909-51-4P 153909-52-5P 153909-53-6P 153909-54-7P  
 153909-55-8P 153909-56-9P 153909-57-0P 153909-58-1P 153909-59-2P  
 153909-60-5P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, as intermediate for azinylhydroxybenzamide herbicide and plant growth regulator)

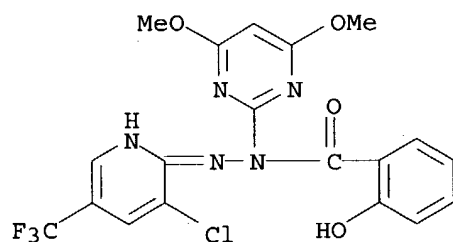
IT 593-56-6, O-Methylhydroxylamine hydrochloride 39943-64-1 110284-78-1  
 113761-79-8 141112-41-6

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, in preparation of azinylhydroxybenzamide herbicide and plant growth regulator)

IT 153909-12-7P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of, as herbicide and plant growth regulator)

RN 153909-12-7 HCAPLUS

CN Benzoic acid, 2-hydroxy-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-1-(4,6-dimethoxy-2-pyrimidinyl)hydrazide (9CI) (CA INDEX NAME)



L56 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1992:214529 HCAPLUS

DN 116:214529

ED Entered STN: 31 May 1992

TI Preparation of [(pyrimidin-2-yl)oxy]benzohydrazides and analogs as herbicides

IN Hiratsuka, Mitsunori; Hirata, Naonori; Saitoh, Kazuo; Shibata, Hideyuki

PA Sumitomo Chemical Co., Ltd., Japan

SO Eur. Pat. Appl., 83 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM C07D239-60

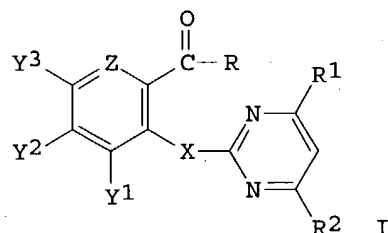
ICS C07D239-34; C07D239-38; C07D401-12; A01N043-54; C07D413-12;

C07D413-14

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))  
Section cross-reference(s): 5

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 469711	A1	19920205	EP 1991-305672	19910624
	R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
	JP 05004971	A2	19930114	JP 1991-173257	19910617
	AU 9179136	A1	19920109	AU 1991-79136	19910620
	AU 638840	B2	19930708		
	CA 2046206	AA	19920106	CA 1991-2046206	19910704
	BR 9102835	A	19920204	BR 1991-2835	19910704
	US 5135563	A	19920804	US 1991-726218	19910705
PRAI	JP 1990-178967		19900705		
	JP 1991-124816		19910426		
OS	MARPAT 116:214529				
GI					



AB The title compds. [I; R1, R2 = C1-6 alkyl, (halo)C1-6 alkoxy, halo; X = O, S; Z = N, CY4; Y1-Y3 = H, halo, C1-6 alkyl, C1-6 alkoxy; Y4 = H, HO, HS, NO2, halo, C1-6 alkyl, etc.] [II; R = NR3NR4R5; R3 = H, C1-6 alkyl, (un)substituted Ph; R4, R5 = H, C1-6 alkyl, (halo)C1-6 alkoxy, (un)substituted Ph, PhCH2, (un)substituted pyridyl, etc.] were prepared by amidation of the parent carboxylic acids (II; R = OH). Thus, a prestirred mixture of 1.10 g 2-(4,6-dimethoxypyrimidin-2-yl)oxybenzoic acid and 0.77 g N,N'-carbonyldiimidazole in 10 mL THF was treated at 0°-5° by 0.72 g hydrazine monohydrate and the whole stirred for 30 min at that temperature to give 0.95 g title compound (I; R1 = R2 = MeO, Y1 = Y2 = Y3 = H,

X = O, Z = CH) (III; R = NHNH2). The latter at 2.5 g/a in a flooding treatment test in paddy field had activity 4 (the highest activity being 5 on a 0-5 scale) against barnyardgrass, bulrush and arrowhead, vs. activity 0 for the structural analog III (R = NH2). Approx. 62 I were prepared and 2 specific I are claimed.

ST pyrimidinyl oxybenzohydrazide prepn herbicide; amidation  
dimethoxypyrimidinyl oxybenzoate hydrazine herbicide prepn  
IT Herbicides

IT (([pyrimidin-2-yl]oxy)benzohydrazides and analogs)

IT 7803-57-8, Hydrazine monohydrate 32957-26-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(amidation by, of (pyrimidinyl oxy)benzoic acid derivative, in preparation of herbicide)

IT 113761-80-1

RL: RCT (Reactant); RACT (Reactant or reagent)

(amidation of, by aminooxazolidinone, in preparation of herbicide)

IT 110284-78-1

RL: RCT (Reactant); RACT (Reactant or reagent)

(amidation of, by hydrazine, in preparation of herbicide)

IT 141112-93-8P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, as herbicide)

IT 136187-62-7P 136187-63-8P 136187-64-9P 141112-38-1P 141112-39-2P  
 141112-40-5P 141112-41-6P 141112-42-7P 141112-43-8P 141112-44-9P  
 141112-45-0P 141112-46-1P 141112-47-2P 141112-48-3P 141112-49-4P  
 141112-50-7P 141112-51-8P 141112-52-9P 141112-53-0P 141112-54-1P  
 141112-55-2P 141112-56-3P 141112-57-4P 141112-58-5P 141112-59-6P  
 141112-60-9P 141112-61-0P 141112-62-1P 141112-63-2P 141112-64-3P  
**141112-65-4P** 141112-66-5P 141112-67-6P 141112-68-7P  
 141112-69-8P 141112-70-1P 141112-71-2P 141112-72-3P 141112-73-4P  
 141112-74-5P 141112-75-6P 141112-76-7P 141112-77-8P 141112-78-9P  
 141112-79-0P 141112-80-3P 141112-81-4P 141112-82-5P  
**141112-83-6P** 141112-84-7P 141112-85-8P 141112-86-9P  
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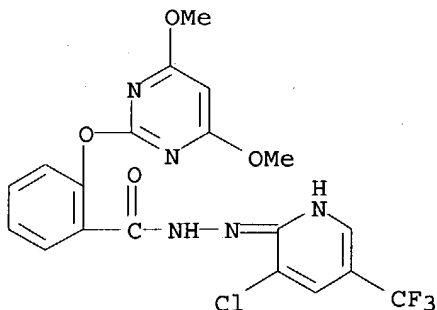
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of, as herbicide)

IT **141112-65-4P 141112-83-6P**

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of, as herbicide)

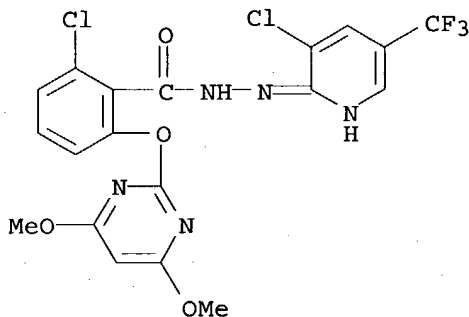
RN 141112-65-4 HCAPLUS

CN Benzoic acid, 2-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



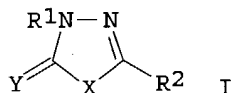
RN 141112-83-6 HCAPLUS

CN Benzoic acid, 2-chloro-6-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



DN 109:124419  
 ED Entered STN: 14 Oct 1988  
 TI Preparation of five-membered heterocycles with three heteroatoms, as pesticides  
 IN Luethy, Christoph  
 PA Hoffmann-La Roche, F., und Co. A.-G., Switz.  
 SO Eur. Pat. Appl., 59 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA German  
 IC ICM C07D271-10  
 ICS C07D413-04; C07D249-12; C07D285-12; A01N043-653; A01N043-82  
 CC 5-4 (Agrochemical Bioregulators)  
 Section cross-reference(s): 1, 28  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 270061	A2	19880608	EP 1987-117698	19871130
	EP 270061	A3	19881117		
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL				
	DK 8705709	A	19880602	DK 1987-5709	19871030
	ZA 8708811	A	19880727	ZA 1987-8811	19871124
	HU 45850	A2	19880928	HU 1987-5338	19871127
	JP 63154678	A2	19880627	JP 1987-303067	19871130
	BR 8706464	A	19880712	BR 1987-6464	19871130
	AU 8782036	A1	19880602	AU 1987-82036	19871201
	AU 602372	B2	19901011		
	US 4943583	A	19900724	US 1987-126804	19871201
PRAI	CH 1986-4785		19861201		
	CH 1987-3571		19870916		
OS	MARPAT 109:124419				
GI					



AB The title heterocycles I [R1 = (un)substituted Ph or pyridyl; R2 = substituted Ph; X = O, S, NR3, Y = S, O; R3 = Me, halomethyl, 1-propynyl] are prepared as insecticides and acaricides (no data). A mixture of 2-chloro-6-fluoro-N'-( $\alpha,\alpha,\alpha$ -trifluoro-o-tolyl)benzhydrazide, phosgene and toluene was refluxed for 16 h to give 5-(2-chloro-6-fluorophenyl)-3-( $\alpha,\alpha,\alpha$ -trifluoro-o-tolyl)-1,3,4-oxadiazol-2(3H)one. An emulsion concentrate comprised I 250, N-methyl-2-pyrrolidone 400, Ankopal N-100 75, and Ca dodecylbenzenesulfonate 25 g and Solvesso-100 to 1L.

ST pesticide oxadiazolone triazolone thiadiazolone prepn

IT Pesticides  
 (heterocycles with 3-heteroatoms, preparation of)

IT 75-44-5, Phosgene 463-71-8, Thiophosgene 503-38-8, Trichloromethyl chloroformate 541-41-3, Ethyl chloroformate  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (cyclization by, of benzhydrazide derivative)

IT

107510-93-0P	107511-09-1P	107511-52-4P	116370-09-3P	116370-10-6P
116370-11-7P	116370-12-8P	116388-94-4P	116388-95-5P	116388-96-6P
116388-97-7P	116388-98-8P	116388-99-9P	116389-00-5P	116389-01-6P
116389-02-7P	116389-03-8P	116389-04-9P	116389-05-0P	
116389-06-1P	116389-07-2P	116389-08-3P	116389-09-4P	116389-10-7P
116389-11-8P	116389-12-9P	116389-13-0P	116389-14-1P	

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of)

IT 116370-10-6P 116370-13-9P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of, with Et chloroformate)

IT 107511-52-4P 116370-12-8P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of, with phosgene)

IT 116370-13-9P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of, with thiophosgene)

IT 116370-09-3P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of, with trichloromethyl chloroformate)

IT 107511-03-5P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and methylation of)

IT 116370-14-0P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

IT 116369-81-4P 116369-82-5P 116369-83-6P 116369-84-7P 116369-85-8P  
116369-86-9P 116369-87-0P 116369-88-1P 116369-89-2P 116369-90-5P  
116369-91-6P 116369-92-7P 116369-93-8P 116369-94-9P 116369-95-0P  
116369-96-1P 116369-97-2P 116369-98-3P 116369-99-4P 116370-00-4P  
116370-01-5P 116370-02-6P 116370-03-7P 116370-04-8P 116370-05-9P  
116370-06-0P 116370-07-1P 116370-08-2P 116370-15-1P 116400-41-0P  
116400-42-1P  
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of, as pesticide)

IT 41052-75-9, 2-Chlorophenylhydrazine hydrochloride  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with chlorofluorobenzoyl chloride)

IT 79455-63-3, 2-Chloro-6-fluorobenzoyl chloride  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with chlorophenylhydrazine)

IT 365-34-4, o-Trifluoromethylphenylhydrazine  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with difluorobenzoyl chloride)

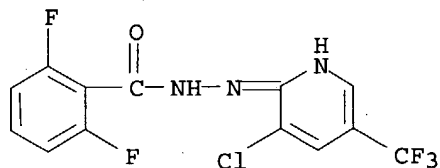
IT 3107-34-4  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with difluorobenzoyl fluoride)

IT 18063-02-0, 2,6-Difluorobenzoyl chloride  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with trifluoromethylphenylhydrazine)

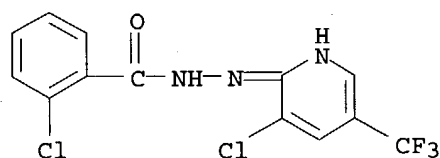
IT 13656-41-2, 2,6-Difluorobenzoyl fluoride  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with trifluorotolylhydrazine)

IT 116389-03-8P 116389-04-9P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of)

RN 116389-03-8 HCAPLUS  
CN Benzoic acid, 2,6-difluoro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



RN 116389-04-9 HCAPLUS  
 CN Benzoic acid, 2-chloro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



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 DICTIONARY FILE UPDATES: 18 FEB 2004 HIGHEST RN 651705-73-6

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

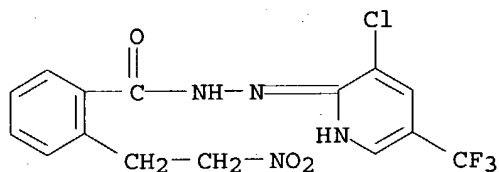
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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

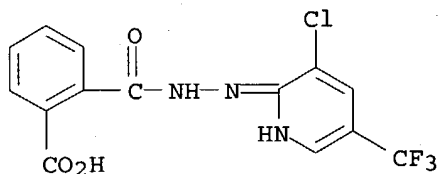
=> => d ide can tot l57

L57 ANSWER 1 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 338770-92-6 REGISTRY  
 CN Benzoic acid, 2-(2-nitroethyl)-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C15 H12 Cl F3 N4 O3  
 SR Chemical Library  
 LC STN Files: CHEMCATS



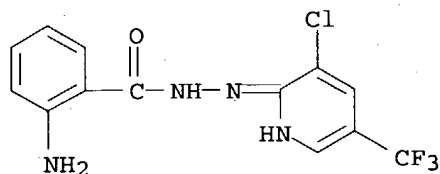
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L57 ANSWER 2 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 338770-54-0 REGISTRY  
 CN 1,2-Benzenedicarboxylic acid, mono[2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide] (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C14 H9 Cl F3 N3 O3  
 SR Chemical Library  
 LC STN Files: CHEMCATS



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

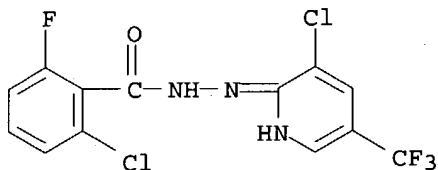
L57 ANSWER 3 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 338397-82-3 REGISTRY  
 CN Benzoic acid, 2-amino-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C13 H10 Cl F3 N4 O  
 SR Chemical Library  
 LC STN Files: CHEMCATS



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L57 ANSWER 4 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 326807-90-3 REGISTRY  
 CN Benzoic acid, 2-chloro-6-fluoro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C13 H7 Cl2 F4 N3 O

SR CA  
LC STN Files: CA, CAPLUS

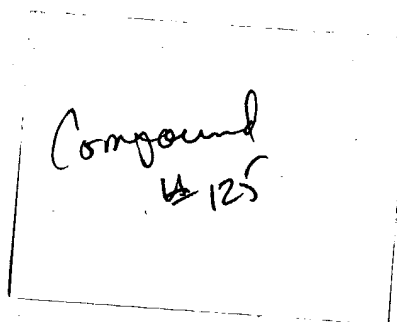
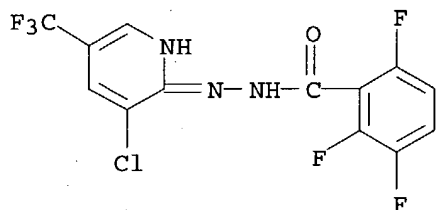


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 5 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 326807-89-0 REGISTRY  
CN Benzoic acid, 2,3,6-trifluoro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C13 H6 Cl F6 N3 O  
SR CA  
LC STN Files: CA, CAPLUS



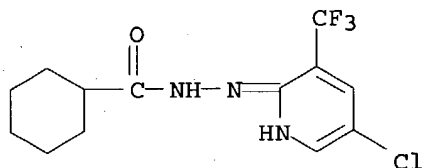
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 6 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 326807-88-9 REGISTRY  
CN Cyclohexanecarboxylic acid, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C13 H15 Cl F3 N3 O  
SR CA  
LC STN Files: CA, CAPLUS



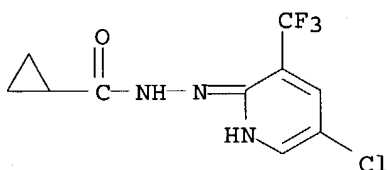


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 7 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 326807-87-8 REGISTRY  
CN Cyclopropanecarboxylic acid, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C10 H9 Cl F3 N3 O  
SR CA  
LC STN Files: CA, CAPLUS



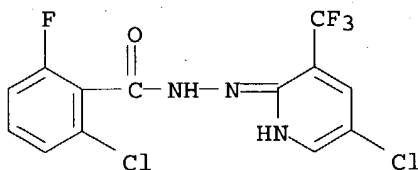
Compound  
# 123

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 8 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 326807-85-6 REGISTRY  
CN Benzoic acid, 2-chloro-6-fluoro-, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C13 H7 Cl2 F4 N3 O  
SR CA  
LC STN Files: CA, CAPLUS



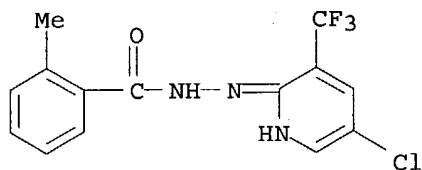
Compound  
# 121

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 9 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 326807-84-5 REGISTRY  
CN Benzoic acid, 2-methyl-, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C14 H11 Cl F3 N3 O  
SR CA  
LC STN Files: CA, CAPLUS

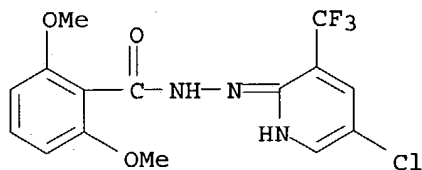


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 10 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 326807-83-4 REGISTRY  
CN Benzoic acid, 2,6-dimethoxy-, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C15 H13 Cl F3 N3 O3  
SR CA  
LC STN Files: CA, CAPLUS



Compound  
#119

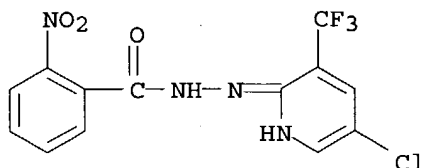
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 11 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 326807-82-3 REGISTRY  
CN Benzoic acid, 2-nitro-, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD

MF C13 H8 Cl F3 N4 O3  
SR CA  
LC STN Files: CA, CAPLUS

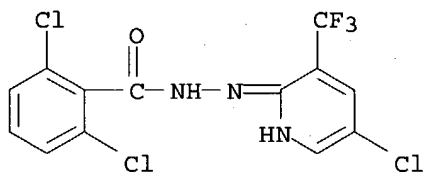


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 12 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 326807-81-2 REGISTRY  
CN Benzoic acid, 2,6-dichloro-, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C13 H7 Cl3 F3 N3 O  
SR CA  
LC STN Files: CA, CAPLUS



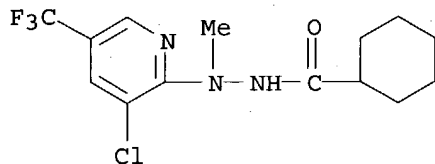
Compound  
# 47

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 13 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 326807-80-1 REGISTRY  
CN Cyclohexanecarboxylic acid, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C14 H17 Cl F3 N3 O  
SR CA  
LC STN Files: CA, CAPLUS

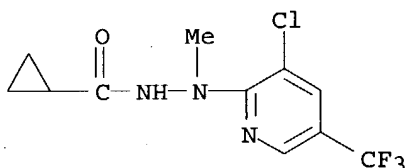


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 14 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 326807-79-8 REGISTRY  
CN Cyclopropanecarboxylic acid, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C11 H11 Cl F3 N3 O  
SR CA  
LC STN Files: CA, CAPLUS



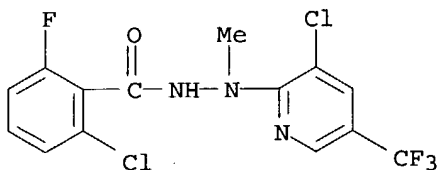
Compound  
# 115

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 15 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 326807-77-6 REGISTRY  
CN Benzoic acid, 2-chloro-6-fluoro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C14 H9 Cl2 F4 N3 O  
SR CA  
LC STN Files: CA, CAPLUS



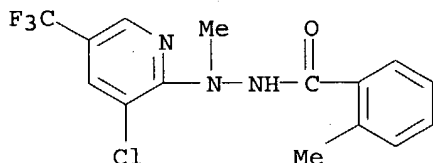
Compound  
# 113

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 16 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 326807-76-5 REGISTRY  
CN Benzoic acid, 2-methyl-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C15 H13 Cl F3 N3 O  
SR CA  
LC STN Files: CA, CAPLUS

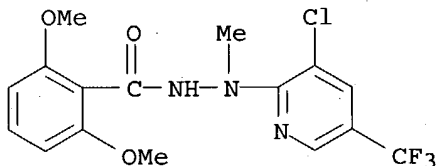


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 17 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 326807-75-4 REGISTRY  
CN Benzoic acid, 2,6-dimethoxy-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C16 H15 Cl F3 N3 O3  
SR CA  
LC STN Files: CA, CAPLUS



Compound  
# 111

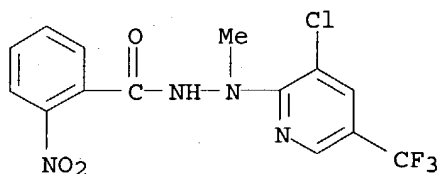
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 18 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 326807-74-3 REGISTRY  
CN Benzoic acid, 2-nitro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD

MF C14 H10 Cl F3 N4 O3  
SR CA  
LC STN Files: CA, CAPLUS

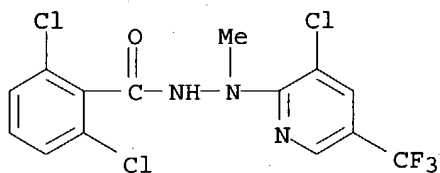


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 19 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 326807-73-2 REGISTRY  
CN Benzoic acid, 2,6-dichloro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-  
2-methylhydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C14 H9 Cl3 F3 N3 O  
SR CA  
LC STN Files: CA, CAPLUS



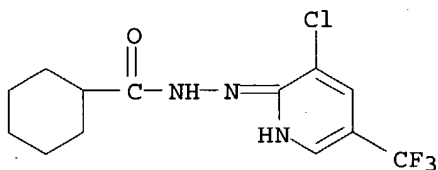
Compound  
#109

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 20 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 326807-72-1 REGISTRY  
CN Cyclohexanecarboxylic acid, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C13 H15 Cl F3 N3 O  
SR CA  
LC STN Files: CA, CAPLUS

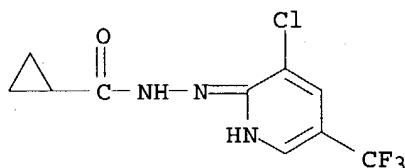


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 21 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 326807-71-0 REGISTRY  
CN Cyclopropanecarboxylic acid, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C10 H9 Cl F3 N3 O  
SR CA  
LC STN Files: CA, CAPLUS



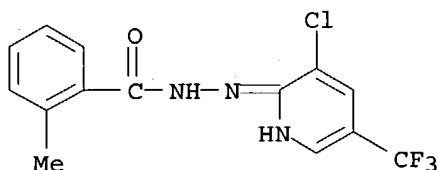
Compound  
#107

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 22 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 326807-69-6 REGISTRY  
CN Benzoic acid, 2-methyl-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C14 H11 Cl F3 N3 O  
SR CA  
LC STN Files: CA, CAPLUS



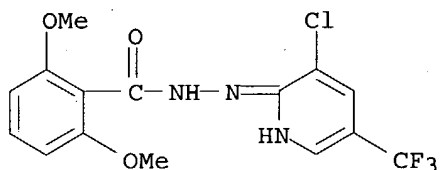
Compound  
#105

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 23 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 326807-68-5 REGISTRY  
CN Benzoic acid, 2,6-dimethoxy-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C15 H13 Cl F3 N3 O3  
SR CA  
LC STN Files: CA, CAPLUS, CHEMCATS

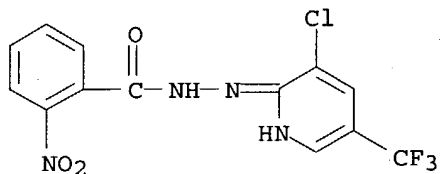


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 24 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 326807-67-4 REGISTRY  
CN Benzoic acid, 2-nitro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C13 H8 Cl F3 N4 O3  
SR CA  
LC STN Files: CA, CAPLUS



Compound  
#103

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

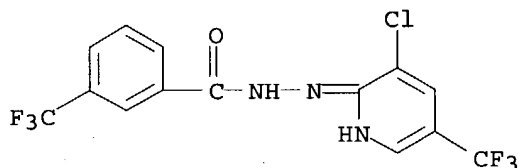
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L57 ANSWER 25 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 287979-13-9 REGISTRY  
CN Benzoic acid, 3-(trifluoromethyl)-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD

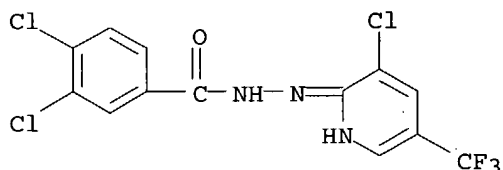


MF C14 H8 Cl F6 N3 O  
SR CAS Client Services  
LC STN Files: CHEMCATS



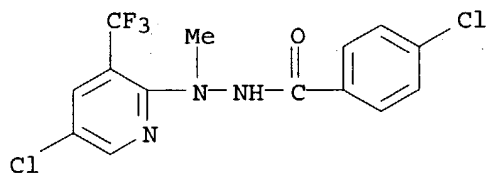
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L57 ANSWER 26 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 287979-00-4 REGISTRY  
CN Benzoic acid, 3,4-dichloro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C13 H7 Cl3 F3 N3 O  
SR CAS Client Services  
LC STN Files: CHEMCATS



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

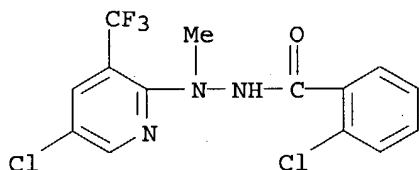
L57 ANSWER 27 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 255867-00-6 REGISTRY  
CN Benzoic acid, 4-chloro-, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C14 H10 Cl2 F3 N3 O  
SR CAS Client Services  
LC STN Files: CHEMCATS



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

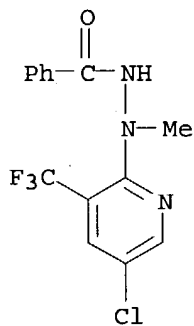
L57 ANSWER 28 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 255866-99-0 REGISTRY

CN Benzoic acid, 2-chloro-, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C14 H10 Cl2 F3 N3 O  
SR CAS Client Services  
LC STN Files: CHEMCATS



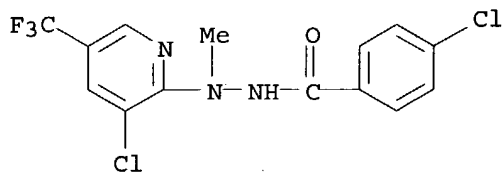
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L57 ANSWER 29 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 255866-98-9 REGISTRY  
CN Benzoic acid, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C14 H11 Cl F3 N3 O  
SR CAS Client Services  
LC STN Files: CHEMCATS



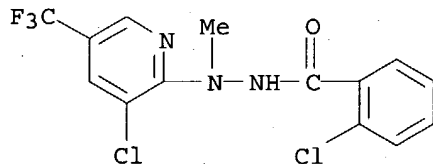
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L57 ANSWER 30 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 255866-97-8 REGISTRY  
CN Benzoic acid, 4-chloro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C14 H10 Cl2 F3 N3 O  
SR CAS Client Services  
LC STN Files: CHEMCATS



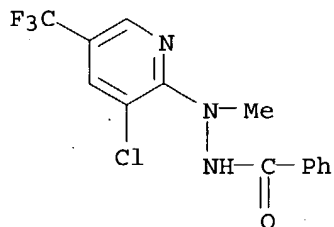
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L57 ANSWER 31 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 255866-96-7 REGISTRY  
 CN Benzoic acid, 2-chloro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C14 H10 Cl2 F3 N3 O  
 SR CAS Client Services  
 LC STN Files: CHEMCATS



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

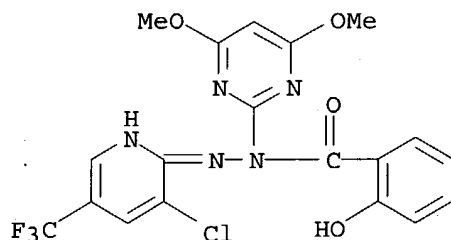
L57 ANSWER 32 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 255866-95-6 REGISTRY  
 CN Benzoic acid, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C14 H11 Cl F3 N3 O  
 SR CAS Client Services  
 LC STN Files: CHEMCATS



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L57 ANSWER 33 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 153909-12-7 REGISTRY  
 CN Benzoic acid, 2-hydroxy-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-1-(4,6-dimethoxy-2-pyrimidinyl)hydrazide (9CI) (CA INDEX NAME)

MF C19 H15 Cl F3 N5 O4  
SR CA  
LC STN Files: CA, CAPLUS

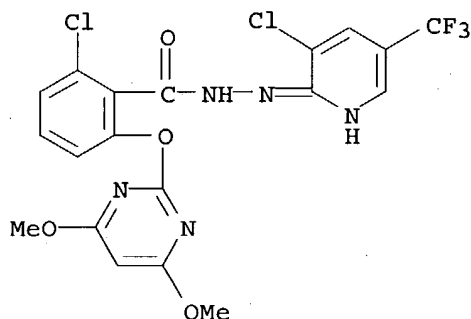


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1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 120:217743

L57 ANSWER 34 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 141112-83-6 REGISTRY  
CN Benzoic acid, 2-chloro-6-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C19 H14 Cl2 F3 N5 O4  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



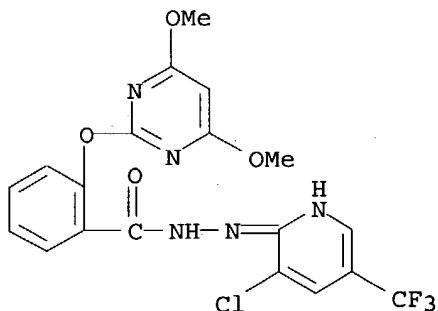
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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 116:214529

L57 ANSWER 35 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 141112-65-4 REGISTRY  
CN Benzoic acid, 2-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C19 H15 Cl F3 N5 O4  
SR CA

LC STN Files: CA, CAPLUS, CHEMCATS, USPATFULL

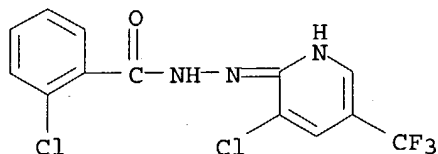


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 116:214529

L57 ANSWER 36 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 116389-04-9 REGISTRY  
CN Benzoic acid, 2-chloro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C13 H8 Cl2 F3 N3 O  
SR CA  
LC STN Files: CA, CAPLUS, CHEMCATS, USPATFULL



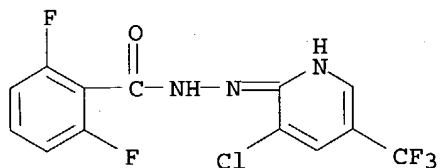
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2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

REFERENCE 2: 109:124419

L57 ANSWER 37 OF 37 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 116389-03-8 REGISTRY  
CN Benzoic acid, 2,6-difluoro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C13 H7 Cl F5 N3 O  
SR CA  
LC STN Files: CA, CAPLUS, CHEMCATS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 109:124419

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FILE 'REGISTRY' ENTERED AT 17:11:06 ON 19 FEB 2004

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L3 50 S L1 SAM SUB=L2  
L4 1334 S L1 FUL SUB=L2  
SAV L4 QAZI049/A  
L5 STR L1  
L6 50 S L5 SAM SUB=L4  
L7 1166 S L5 FUL SUB=L4  
SAV L7 QAZI049A/A  
L8 STR  
L9 STR L8  
L10 0 S L8 SAM SUB=L7  
L11 2 S L9 SAM SUB=L7  
L12 38 S (L8 OR L9) FUL SUB=L7  
SAV L12 QAZI049B/A  
L13 35 S L12 AND 2/NR  
L14 3 S L13 AND C13H7CL3F3N3O  
SEL RN 2  
L15 1 S L14 AND E1  
L16 34 S L13 NOT L15  
L17 12 S L7 AND 13/C AND 3/CL AND 3/F AND 3/N AND 1/O AND 2/NR  
L18 7 S L17 AND C6/ES  
L19 4 S L18 NOT L14

FILE 'HCAOLD' ENTERED AT 17:30:56 ON 19 FEB 2004

L20 0 S L15

FILE 'USPATFULL, USPAT2' ENTERED AT 17:31:01 ON 19 FEB 2004

L21 0 S L15

FILE 'HCAPLUS' ENTERED AT 17:31:08 ON 19 FEB 2004

L22 1 S L15  
E COOKE T/AU  
L23 74 S E3-E12,E34,E35  
E HARDY D/AU  
L24 214 S E3-E18,E23-E34  
E MOLONEY B/AU  
L25 16 S E5-E7  
E O MAHONY M/AU

L26 41 S E3,E5,E10,E11  
     E OMAHONY M/AU  
     E MAHONY M/AU  
 L27 9 S E3,E5  
     E PETTETT M/AU  
 L28 6 S E4-E6  
     E PATEL G/AU  
 L29 412 S E3-E19  
 L30 13 S E59-E61  
     E SCHNATTERER S/AU  
 L31 16 S E4  
     E AVENTIS/PA,CS  
 L32 1977 S E3,E4  
 L33 2 S L13  
 L34 4 S L12  
 L35 1 S L23-L32 AND L33  
 L36 1 S L23-L32 AND L34  
 L37 1 S (WO2000-EP8268 OR GB99-19558)/AP,PRN  
 L38 1 S L23-L36 AND L37  
     SEL RN

FILE 'REGISTRY' ENTERED AT 17:35:57 ON 19 FEB 2004

L39 214 S E1-E214  
 L40 180 S L39 AND L4  
 L41 180 S L7 AND L40  
 L42 34 S L39 NOT L41  
 L43 STR L1  
 L44 STR L43  
 L45 50 S L44 SAM SUB=L2  
 L46 8306 S L44 FUL SUB=L2  
     SAV L46 QAZI049C/A  
 L47 190 S L39 AND L46  
 L48 24 S L39 NOT L47  
 L49 1 S L48 AND IDS/CI  
 L50 191 S L47,L49  
 L51 190 S L50 NOT L15

FILE 'HCAPLUS' ENTERED AT 17:41:47 ON 19 FEB 2004

L52 3 S L51  
 L53 2 S L23-L32 AND L52  
 L54 3 S L52,L53  
 L55 3 S L33,L34 NOT L22  
 L56 5 S L52-L55

FILE 'REGISTRY' ENTERED AT 17:45:25 ON 19 FEB 2004

FILE 'HCAPLUS' ENTERED AT 17:45:58 ON 19 FEB 2004

FILE 'REGISTRY' ENTERED AT 17:47:19 ON 19 FEB 2004

L57 37 S L12 NOT L15

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 SET COST OFF

FILE 'REGISTRY' ENTERED AT 18:15:29 ON 19 FEB 2004  
 ACT QAZI049B/A

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 L3 ( 1334)SEA FILE=REGISTRY SUB=L2 SSS FUL L1  
 L4 STR

L5 ( 1166)SEA FILE=REGISTRY SUB=L3 SSS FUL L4  
 L6 STR  
 L7 STR  
 L8 38 SEA FILE=REGISTRY SUB=L5 SSS FUL (L6 OR L7)  
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 L9 37 S L8 NOT 326807-66-3

FILE 'HCAOLD' ENTERED AT 18:16:30 ON 19 FEB 2004  
 L10 0 S L9

FILE 'HCAPLUS' ENTERED AT 18:16:34 ON 19 FEB 2004  
 L11 4 S L9

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 18:16:51 ON 19 FEB 2004  
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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FILE COVERS 1907 - 19 Feb 2004 VOL 140 ISS 8  
 FILE LAST UPDATED: 18 Feb 2004 (20040218/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

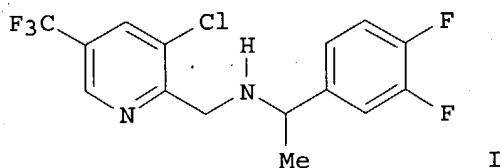
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L11 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2001:137193 HCAPLUS  
 DN 134:178467  
 ED Entered STN: 25 Feb 2001  
 TI Preparation of pyridine derivatives as phytopathogenic fungicides  
 IN Cooke, Tracey; Hardy, David; Moloney, Brian Anthony; O'Mahony, Mary Josephine; Pettett, Michael George; Patel, Gita; Schnatterer, Stefan  
 PA Aventis CropScience GmbH, Germany  
 SO PCT Int. Appl., 57 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM C07D213-61  
 ICS C07D213-89; C07D405-12; C07D213-77; C07D401-12; C07D213-81;  
 C07D213-64; C07D409-12; C07D417-12; C07D498-04; C07D401-06;  
 A01N043-40  
 CC 27-16 (Heterocyclic Compounds (One Hetero Atom))  
 Section cross-reference(s): 5  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001012604	A1	20010222	WO 2000-EP8268	20000811
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,				



HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,  
 LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,  
 SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,  
 YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,  
 CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
 BR 2000013369 A 20020507 BR 2000-13369 20000811  
 EP 1204642 A1 20020515 EP 2000-954651 20000811  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, MC, IE, SI,  
 LT, LV, FI, RO, MK, CY, AL  
 JP 2003507368 T2 20030225 JP 2001-517502 20000811  
 PRAI GB 1999-19558 A 19990818  
 WO 2000-EP8268 W 20000811  
 OS MARPAT 134:178467  
 GI



AB The title compds. A1LA2 [A1 = (un)substituted 2-pyridyl or its N-oxide;  
 Ar2 = (un)substituted heterocyclcyl, carbocyclcyl; L = a 3-atom linker  
 selected from CHR1NR3CHR2, NR3NR4C:X, C:XNR3CHR1, etc. (wherein A1 is  
 attached to the left hand side of linker L); R1, R2 = CN, NO2, halo, etc.;  
 R3, R4 = CN, NO2, alkyl, etc.; any of R1-R4, together with the  
 interconnecting atoms, can form a 5-6 membered ring with any other R1-R4,  
 or any R1-R4, together with the interconnecting atoms can form a 5-6  
 membered ring with A2; X = O, S, N(alkyl), etc.], useful as  
 phytopathogenic fungicides, were prepared Thus, reacting  
 1-(3,4-difluorophenyl)-1-ethanamine with 3-chloro-5-  
 (trifluoromethyl)pyridine-2-carboxaldehyde in the presence of Et3N in  
 CH(OMe)3 followed by addition of NaBH3CN/THF and AcOH afforded the title  
 compound I which showed moderate to total control against Leptosphaeria  
 nodorum at 500 ppm or less.

ST pyridine prepn agrochem fungicide  
 IT Fungicides  
 (agrochem.; preparation of pyridine derivs. as phytopathogenic fungicides)

IT 326807-13-0P 326808-86-0P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except  
 adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN  
 (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT  
 (Reactant or reagent); USES (Uses)  
 (preparation of pyridine derivs. as phytopathogenic fungicides)

IT **116389-04-9P** 326476-24-8P 326807-14-1P 326807-15-2P  
 326807-16-3P 326807-17-4P 326807-18-5P 326807-19-6P 326807-20-9P  
 326807-21-0P 326807-22-1P 326807-23-2P 326807-24-3P 326807-25-4P  
 326807-26-5P 326807-27-6P 326807-28-7P 326807-29-8P 326807-30-1P  
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 326807-66-3P **326807-67-4P 326807-68-5P**  
**326807-69-6P** 326807-70-9P **326807-71-0P**

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 326809-05-6P 326809-06-7P 326809-07-8P 326812-96-8P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of pyridine derivs. as phytopathogenic fungicides)

IT 86-55-5, 1-Naphthoic acid 89-98-5, 2-Chlorobenzaldehyde 118-91-2,  
 2-Chlorobenzoic acid 608-31-1, 2,6-Dichloroaniline 614-21-1,  
 2-Nitroacetophenone 1777-82-8, 2,4-Dichlorobenzyl alcohol 3034-19-3,  
 2-Nitrophenylhydrazine 3886-69-9 4659-45-4, 2,6-Dichlorobenzoyl  
 chloride 69045-84-7, 2,3-Dichloro-5-trifluoromethylpyridine  
 70591-20-7, [(Diphenylmethylene)amino]methyl cyanide 75408-89-8,  
 4-Acetylbiphenyl oxime 79456-26-1, 2-Amino-3-chloro-5-  
 trifluoromethylpyridine 89570-82-1 118386-83-7 175277-50-6,  
 3-Chloro-5-trifluoromethylpyridine-2-carboxaldehyde 175277-52-8,  
 3-Chloro-2-(chloromethyl)-5-trifluoromethylpyridine 276875-21-9,  
 1-(3,4-Difluorophenyl)-1-ethanamine 326809-08-9 326809-09-0  
 326809-10-3, 2-(3-Bromo-4-methoxyphenyl)-1H-imidazole

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of pyridine derivs. as phytopathogenic fungicides)

RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Agrevo Uk Ltd; GB 2307177 A 1997 HCAPLUS
- (2) Agrevo Uk Ltd; WO 9907687 A 1999 HCAPLUS
- (3) Anon; PATENT ABSTRACTS OF JAPAN 1983, V007(114), PC-166
- (4) Anon; PATENT ABSTRACTS OF JAPAN 1989, V013(379), PC-628
- (5) Anon; PATENT ABSTRACTS OF JAPAN 1990, V014(310), PC-0736
- (6) Anon; PATENT ABSTRACTS OF JAPAN 1992, V016(148), PC-0928
- (7) Anon; PATENT ABSTRACTS OF JAPAN 1995, V1995(04)
- (8) Basf Ag; EP 0350691 A 1990 HCAPLUS
- (9) Basf Ag; WO 9710215 A 1997 HCAPLUS
- (10) Bayer Ag; EP 0573883 A 1993 HCAPLUS
- (11) Briggs, G; WO 9850352 A 1998 HCAPLUS
- (12) Ciba Geigy Ag; EP 0288976 A 1988 HCAPLUS
- (13) Ciba Geigy Ag; EP 0577555 A 1994 HCAPLUS
- (14) Dow Chemical Co; GB 2068365 A 1981 HCAPLUS

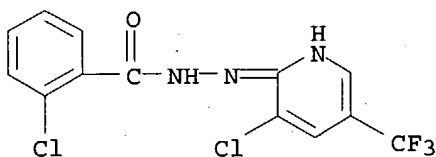
- (15) Dow Chemical Co; EP 0287691 A 1988 HCAPLUS
- (16) Hamprecht, G; WO 9842671 A 1998 HCAPLUS
- (17) Ihara Chemical Ind Co; EP 0648752 A 1995 HCAPLUS
- (18) Ishihara Sangyo Kaisha Ltd; JP 02104575 A 1990 HCAPLUS
- (19) Ishihara Sangyo Kaisha Ltd; JP 07025853 A 1995 HCAPLUS
- (20) Ishihara Sangyo Kk; JP 58035174 A 1983 HCAPLUS
- (21) Kyowa Hakko Kogyo Kk; EP 0882717 A 1998 HCAPLUS
- (22) La Roche, H; EP 0270061 A 1988 HCAPLUS
- (23) Minn; HCAPLUS
- (24) Minn; SYNLETT 1991, 2, P115 HCAPLUS
- (25) Mitsubishi Petrochem Co Ltd; JP 04005282 A 1992 HCAPLUS
- (26) Mitsui Petrochem Ind Ltd; JP 01131146 A 1989 HCAPLUS
- (27) Moloney Brian Anthony; WO 9942447 A 1999 HCAPLUS
- (28) Sumitomo Chemical Co; EP 0469711 A 1992 HCAPLUS
- (29) Sumitomo Chemical Co; EP 0648729 A 1995 HCAPLUS
- (30) Uniroyal Chem Co Inc; WO 9207848 A 1992 HCAPLUS

IT 116389-04-9P 326807-67-4P 326807-68-5P  
 326807-69-6P 326807-71-0P 326807-72-1P  
 326807-73-2P 326807-74-3P 326807-75-4P  
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 326807-87-8P 326807-88-9P 326807-89-0P  
 326807-90-3P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of pyridine derivs. as phytopathogenic fungicides)

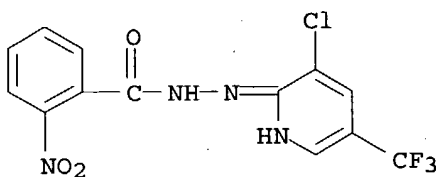
RN 116389-04-9 HCAPLUS

CN Benzoic acid, 2-chloro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



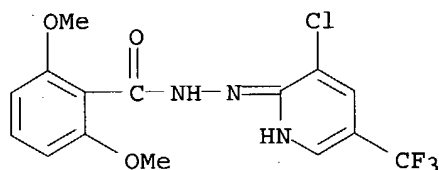
RN 326807-67-4 HCAPLUS

CN Benzoic acid, 2-nitro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



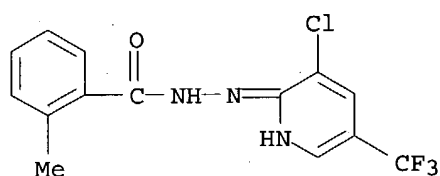
RN 326807-68-5 HCAPLUS

CN Benzoic acid, 2,6-dimethoxy-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



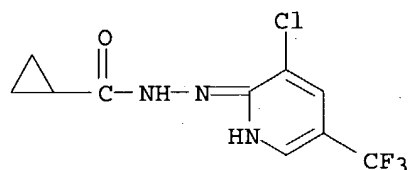
RN 326807-69-6 HCAPLUS

CN Benzoic acid, 2-methyl-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



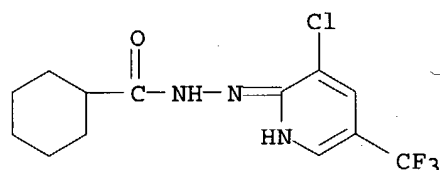
RN 326807-71-0 HCAPLUS

CN Cyclopropanecarboxylic acid, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



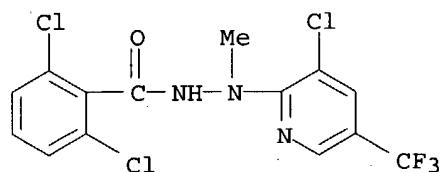
RN 326807-72-1 HCAPLUS

CN Cyclohexanecarboxylic acid, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



RN 326807-73-2 HCAPLUS

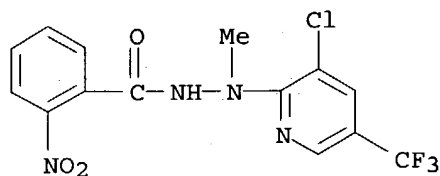
CN Benzoic acid, 2,6-dichloro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)



RN 326807-74-3 HCAPLUS

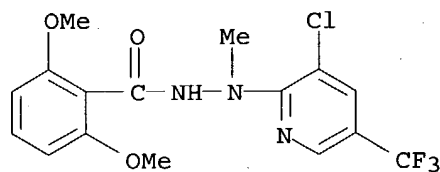
CN Benzoic acid, 2-nitro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)

methylhydrazide (9CI) (CA INDEX NAME)



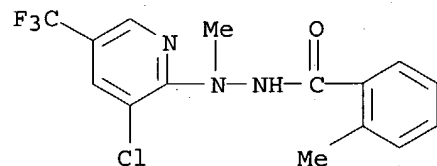
RN 326807-75-4 HCAPLUS

CN Benzoic acid, 2,6-dimethoxy-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)



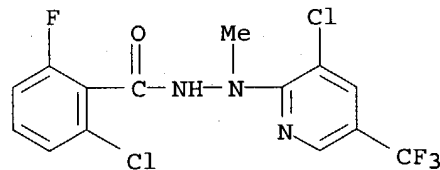
RN 326807-76-5 HCAPLUS

CN Benzoic acid, 2-methyl-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)



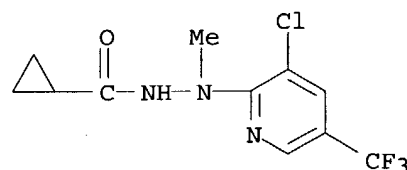
RN 326807-77-6 HCAPLUS

CN Benzoic acid, 2-chloro-6-fluoro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)



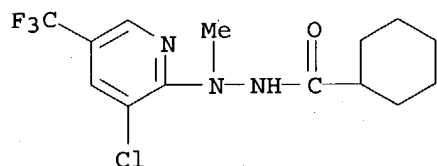
RN 326807-79-8 HCAPLUS

CN Cyclopropanecarboxylic acid, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)



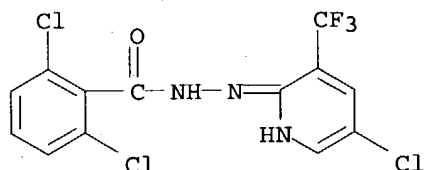
RN 326807-80-1 HCAPLUS

CN Cyclohexanecarboxylic acid, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)



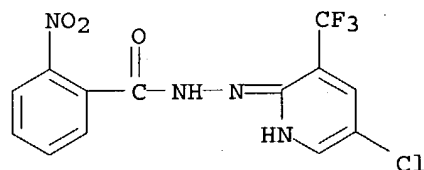
RN 326807-81-2 HCAPLUS

CN Benzoic acid, 2,6-dichloro-, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



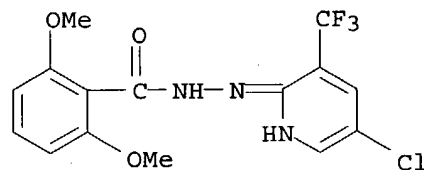
RN 326807-82-3 HCAPLUS

CN Benzoic acid, 2-nitro-, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



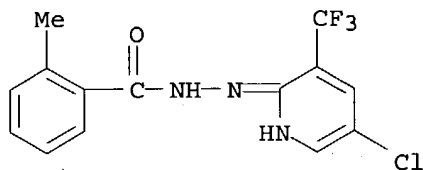
RN 326807-83-4 HCAPLUS

CN Benzoic acid, 2,6-dimethoxy-, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



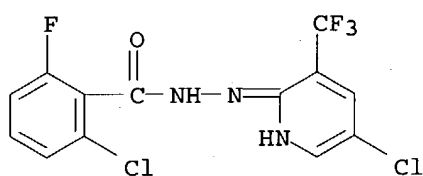
RN 326807-84-5 HCAPLUS

CN Benzoic acid, 2-methyl-, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



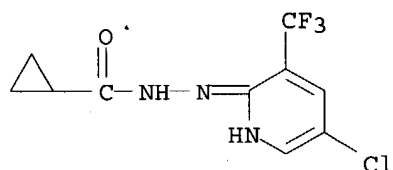
RN 326807-85-6 HCAPLUS

CN Benzoic acid, 2-chloro-6-fluoro-, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



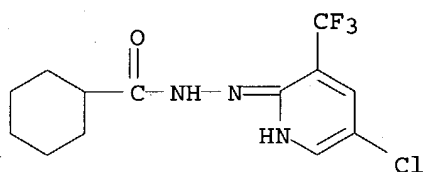
RN 326807-87-8 HCAPLUS

CN Cyclopropanecarboxylic acid, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



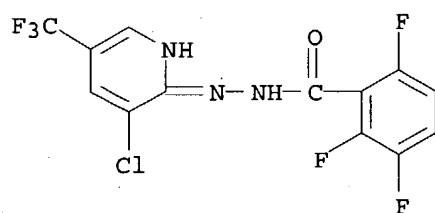
RN 326807-88-9 HCAPLUS

CN Cyclohexanecarboxylic acid, 2-[5-chloro-3-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)

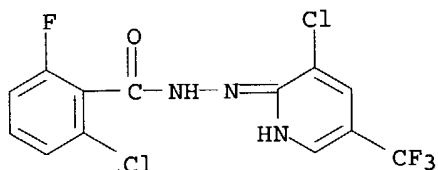


RN 326807-89-0 HCAPLUS

CN Benzoic acid, 2,3,6-trifluoro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



RN 326807-90-3 HCAPLUS  
 CN Benzoic acid, 2-chloro-6-fluoro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)

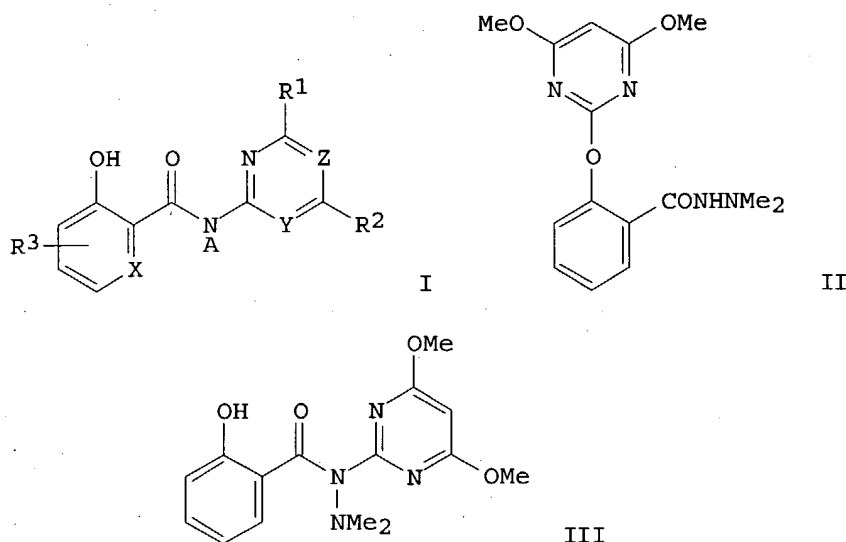


L11 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1994:217743 HCAPLUS  
 DN 120:217743  
 ED Entered STN: 30 Apr 1994  
 TI Preparation of azinylhydroxybenzamides as herbicides and plant growth regulators  
 IN Luethy, Christoph; Fisher, Raymond  
 PA Ciba-Geigy A.-G., Switz.  
 SO PCT Int. Appl., 63 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM C07D239-52  
 ICS A01N043-54; C07D403-12; C07D413-12; C07D409-12; C07D251-46; C07D239-60  
 CC 28-19 (Heterocyclic Compounds (More Than One Hetero Atom))  
 Section cross-reference(s): 5

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9324468	A1	19931209	WO 1993-EP1264	19930521
	W:			AU, BB, BG, BR, BY, CA, CZ, FI, HU, JP, KP, KR, KZ, LK, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, US, VN	
	RW:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG	
	AU 9343146	A1	19931230	AU 1993-43146	19930521
	ZA 9303815	A	19931230	ZA 1993-3815	19930601
PRAI	CH 1992-1771		19920602		
	WO 1993-EP1264		19930521		
OS	MARPAT 120:217743				
GI					





AB Title compds. [I; A = H, NR<sub>5</sub>R<sub>6</sub>, N:R<sub>7</sub>R<sub>8</sub>, OR<sub>9</sub>; X = N, CR<sub>4</sub>; Y = N, or if Z = N, may also = methine, fluoromethine, chloromethine; R<sub>1</sub> = alkyl, alkynyl, cyclopropyl, chloromethyl, F<sub>2</sub>CH, F<sub>3</sub>C, MeO, EtO, alkylamino, Me<sub>2</sub>N, etc.; R<sub>2</sub> = H, Me, F, Cl, alkoxy, difluoromethoxy, trifluoroethoxy, MeS, EtS; R<sub>3</sub> = H, F, Cl, Me, MeO, EtO; R<sub>4</sub> = H, F, Cl, Br, iodo, alkyl, CF<sub>3</sub>, vinyl, alkoxy, 2-propenyloxy, 2-propynyloxy, benzyloxy, PhO, triazolyl, thienyl, pyrazolyl, thienyl, etc.; R<sub>5</sub> = H, alkyl; R<sub>6</sub> = H, (substituted) alkyl, Ph, naphthyl, pyridyl, quinolyl, alkylcarbonyl, PhCO, alkylsulfonyl, PhSO<sub>2</sub>, etc.; R<sub>5</sub>R<sub>6</sub>N = (substituted) heterocyclyl; R<sub>7</sub> = H, alkyl, alkylthio; R<sub>8</sub> = alkyl, cycloalkyl, (substituted) Ph, alkoxy, alkylthio, alkoxy carbonyl, cyano; R<sub>7</sub>R<sub>8</sub> = (CH<sub>2</sub>)<sub>4-5</sub>, SCH<sub>2</sub>CH<sub>2</sub>S; R<sub>9</sub> = H, alkyl, alkenyl, alkynyl, carboxyalkyl, alkoxy carbonyl alkyl, (substituted) PhCH<sub>2</sub>, Ph], were prepared. Thus, ether II was stirred with NaH in THF to give title compound III. Several I at 3 kg/ha preemergent gave 80-100% control of Echinochloa crus-galli, Avena fatua, Abutilon theoplasti, etc.

ST azinylhydroxybenzamide prepn herbicide; plant growth regulator  
azinylhydroxybenzamide

IT Herbicides

(azinylhydroxybenzamides)

IT Plant hormones and regulators

RL: RCT (Reactant); RACT (Reactant or reagent)

(azinylhydroxybenzamides)

IT	153908-90-8P	153908-91-9P	153908-92-0P	153908-93-1P	153908-94-2P
	153908-95-3P	153908-96-4P	153908-97-5P	153908-98-6P	153908-99-7P
	153909-00-3P	153909-01-4P	153909-02-5P	153909-03-6P	153909-04-7P
	153909-05-8P	153909-06-9P	153909-07-0P	153909-08-1P	153909-09-2P
	153909-10-5P	153909-11-6P	<b>153909-12-7P</b>	153909-13-8P	
	153909-14-9P	153909-15-0P	153909-16-1P	153909-17-2P	153909-18-3P
	153909-19-4P	153909-20-7P	153909-21-8P	153909-22-9P	153909-23-0P
	153909-24-1P	153909-25-2P	153909-26-3P	153909-27-4P	153909-28-5P
	153909-29-6P	153909-30-9P	153909-31-0P	153909-32-1P	153909-61-6P
	153909-62-7P				

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of, as herbicide and plant growth regulator)

IT	141112-44-9P	141112-46-1P	141112-49-4P	141112-50-7P	141112-51-8P
	141112-54-1P	141112-55-2P	141112-66-5P	141112-68-7P	141112-72-3P
	141112-86-9P	141112-88-1P	144078-96-6P	153909-33-2P	153909-34-3P
	153909-35-4P	153909-36-5P	153909-37-6P	153909-38-7P	153909-39-8P

153909-40-1P 153909-41-2P 153909-42-3P 153909-43-4P 153909-44-5P  
 153909-45-6P 153909-46-7P 153909-47-8P 153909-48-9P 153909-49-0P  
 153909-50-3P 153909-51-4P 153909-52-5P 153909-53-6P 153909-54-7P  
 153909-55-8P 153909-56-9P 153909-57-0P 153909-58-1P 153909-59-2P  
 153909-60-5P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, as intermediate for azinylhydroxybenzamide herbicide and  
 plant growth regulator)

IT 593-56-6, O-Methylhydroxylamine hydrochloride 39943-64-1 110284-78-1  
 113761-79-8 141112-41-6

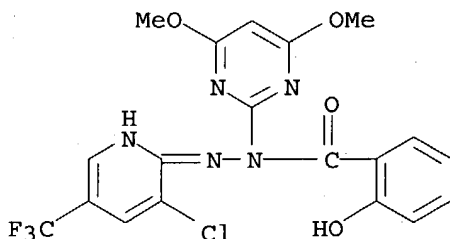
RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, in preparation of azinylhydroxybenzamide herbicide and plant  
 growth regulator)

IT 153909-12-7P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except  
 adverse); BSU (Biological study, unclassified); SPN (Synthetic  
 preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of, as herbicide and plant growth regulator)

RN 153909-12-7 HCAPLUS

CN Benzoic acid, 2-hydroxy-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-1-  
 (4,6-dimethoxy-2-pyrimidinyl)hydrazide (9CI) (CA INDEX NAME)



L11 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1992:214529 HCAPLUS

DN 116:214529

ED Entered STN: 31 May 1992

TI Preparation of [(pyrimidin-2-yl)oxy]benzohydrazides and analogs as  
 herbicides

IN Hiratsuka, Mitsunori; Hirata, Naonori; Saitoh, Kazuo; Shibata, Hideyuki

PA Sumitomo Chemical Co., Ltd., Japan

SO Eur. Pat. Appl., 83 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM C07D239-60

ICS C07D239-34; C07D239-38; C07D401-12; A01N043-54; C07D413-12;  
 C07D413-14

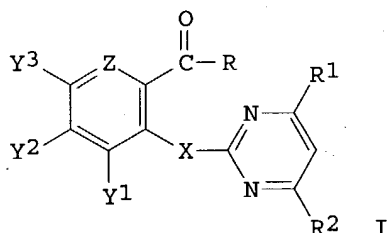
CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 5

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 469711	A1	19920205	EP 1991-305672	19910624
	R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
	JP 05004971	A2	19930114	JP 1991-173257	19910617
	AU 9179136	A1	19920109	AU 1991-79136	19910620
	AU 638840	B2	19930708		
	CA 2046206	AA	19920106	CA 1991-2046206	19910704
	BR 9102835	A	19920204	BR 1991-2835	19910704
	US 5135563	A	19920804	US 1991-726218	19910705

PRAI JP 1990-178967 19900705  
 JP 1991-124816 19910426  
 OS MARPAT 116:214529  
 GI



AB The title compds. [I; R1, R2 = C1-6 alkyl, (halo)C1-6 alkoxy, halo; X = O, S; Z = N, CY4; Y1-Y3 = H, halo, C1-6 alkyl, C1-6 alkoxy; Y4 = H, HO, HS, NO2, halo, C1-6 alkyl, etc.] [II; R = NR3NR4R5; R3 = H, C1-6 alkyl, (un)substituted Ph; R4, R5 = H, C1-6 alkyl, (halo)C1-6 alkoxy, (un)substituted Ph, PhCH2, (un)substituted pyridyl, etc.] were prepared by amidation of the parent carboxylic acids (II; R = OH). Thus, a prestirred mixture of 1.10 g 2-(4,6-dimethoxypyrimidin-2-yl)oxybenzoic acid and 0.77 g N,N'-carbonyldiimidazole in 10 mL THF was treated at 0°-5° by 0.72 g hydrazine monohydrate and the whole stirred for 30 min at that temperature to give 0.95 g title compound (I; R1 = R2 = MeO, Y1 = Y2 = Y3 = H, X = O, Z = CH) (III; R = NHNH2). The latter at 2.5 g/a in a flooding treatment test in paddy field had activity 4 (the highest activity being 5 on a 0-5 scale) against barnyardgrass, bulrush and arrowhead, vs. activity 0 for the structural analog III (R = NH2). Approx. 62 I were prepared and 2 specific I are claimed.

ST pyrimidinyloxybenzohydrazide prepn herbicide; amidation  
 dimethoxypyrimidinyloxybenzoate hydrazine herbicide prepn

IT Herbicides  
 ([pyrimidin-2-yl]oxy]benzohydrazides and analogs)

IT 7803-57-8, Hydrazine monohydrate 32957-26-9  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (amidation by, of (pyrimidinyloxy)benzoic acid derivative, in preparation of herbicide)

IT 113761-80-1  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (amidation of, by aminooxazolidinone, in preparation of herbicide)

IT 110284-78-1  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (amidation of, by hydrazine, in preparation of herbicide)

IT 141112-93-8P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, as herbicide)

IT 136187-62-7P 136187-63-8P 136187-64-9P 141112-38-1P 141112-39-2P  
 141112-40-5P 141112-41-6P 141112-42-7P 141112-43-8P 141112-44-9P  
 141112-45-0P 141112-46-1P 141112-47-2P 141112-48-3P 141112-49-4P  
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**141112-65-4P** 141112-66-5P 141112-67-6P 141112-68-7P  
 141112-69-8P 141112-70-1P 141112-71-2P 141112-72-3P 141112-73-4P  
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**141112-83-6P** 141112-84-7P 141112-85-8P 141112-86-9P  
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141112-92-7P 141126-07-0P 141126-08-1P

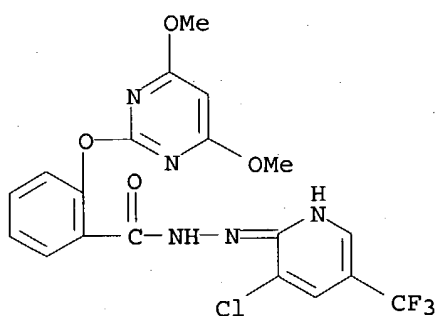
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)

IT 141112-65-4P 141112-83-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)

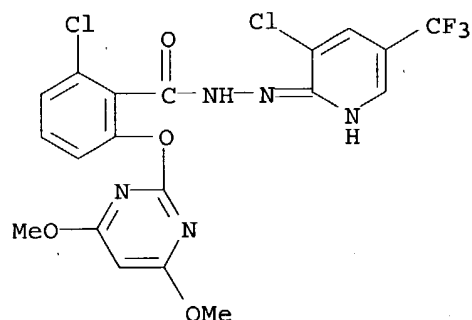
RN 141112-65-4 HCAPLUS

CN Benzoic acid, 2-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



RN 141112-83-6 HCAPLUS

CN Benzoic acid, 2-chloro-6-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



L11 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1988:524419 HCAPLUS

DN 109:124419

ED Entered STN: 14 Oct 1988

TI Preparation of five-membered heterocycles with three heteroatoms, as pesticides

IN Luethy, Christoph

PA Hoffmann-La Roche, F., und Co. A.-G., Switz.

SO Eur. Pat. Appl., 59 pp.

CODEN: EPXXDW

DT Patent

LA German

IC ICM C07D271-10

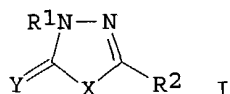
ICS C07D413-04; C07D249-12; C07D285-12; A01N043-653; A01N043-82

CC 5-4 (Agrochemical Bioregulators)

Section cross-reference(s): 1, 28

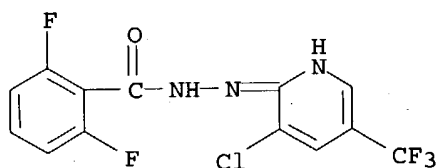
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 270061	A2	19880608	EP 1987-117698	19871130
	EP 270061	A3	19881117		
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL				
	DK 8705709	A	19880602	DK 1987-5709	19871030
	ZA 8708811	A	19880727	ZA 1987-8811	19871124
	HU 45850	A2	19880928	HU 1987-5338	19871127
	JP 63154678	A2	19880627	JP 1987-303067	19871130
	BR 8706464	A	19880712	BR 1987-6464	19871130
	AU 8782036	A1	19880602	AU 1987-82036	19871201
	AU 602372	B2	19901011		
	US 4943583	A	19900724	US 1987-126804	19871201
PRAI	CH 1986-4785		19861201		
	CH 1987-3571		19870916		
OS	MARPAT 109:124419				
GI					

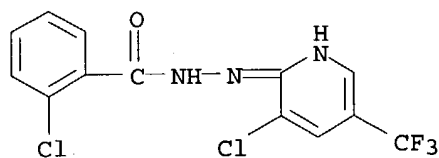


- AB The title heterocycles I [R1 = (un)substituted Ph or pyridyl; R2 = substituted Ph; X = O, S, NR3, Y = S, O; R3 = Me, halomethyl, 1-propynyl] are prepared as insecticides and acaricides (no data). A mixture of 2-chloro-6-fluoro-N'-( $\alpha,\alpha,\alpha$ -trifluoro-o-tolyl)benzhydrazide, phosgene and toluene was refluxed for 16 h to give 5-(2-chloro-6-fluorophenyl)-3-( $\alpha,\alpha,\alpha$ -trifluoro-o-tolyl)-1,3,4-oxadiazol-2(3H)one. An emulsion concentrate comprised I 250, N-methyl-2-pyrrolidone 400, Ankopal N-100 75, and Ca dodecylbenzenesulfonate 25 g and Solvesso-100 to 1L.
- ST pesticide oxadiazolone triazolone thiadiazolone prepn
- IT Pesticides  
(heterocycles with 3-heteroatoms, preparation of)
- IT 75-44-5, Phosgene 463-71-8, Thiophosgene 503-38-8, Trichloromethyl chloroformate, 541-41-3, Ethyl chloroformate  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(cyclization by, of benzhydrazide derivative)
- IT 107510-93-0P 107511-09-1P 107511-52-4P 116370-09-3P 116370-10-6P  
116370-11-7P 116370-12-8P 116388-94-4P 116388-95-5P 116388-96-6P  
116388-97-7P 116388-98-8P 116388-99-9P 116389-00-5P 116389-01-6P  
116389-02-7P 116389-03-8P 116389-04-9P 116389-05-0P  
116389-06-1P 116389-07-2P 116389-08-3P 116389-09-4P 116389-10-7P  
116389-11-8P 116389-12-9P 116389-13-0P 116389-14-1P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of)
- IT 116370-10-6P 116370-13-9P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of, with Et chloroformate)
- IT 107511-52-4P 116370-12-8P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of, with phosgene)
- IT 116370-13-9P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

- (Reactant or reagent)  
(preparation and cyclization of, with thiophosgene)
- IT 116370-09-3P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation and cyclization of, with trichloromethyl chloroformate)
- IT 107511-03-5P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation and methylation of)
- IT 116370-14-0P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)
- IT 116369-81-4P 116369-82-5P 116369-83-6P 116369-84-7P 116369-85-8P  
116369-86-9P 116369-87-0P 116369-88-1P 116369-89-2P 116369-90-5P  
116369-91-6P 116369-92-7P 116369-93-8P 116369-94-9P 116369-95-0P  
116369-96-1P 116369-97-2P 116369-98-3P 116369-99-4P 116370-00-4P  
116370-01-5P 116370-02-6P 116370-03-7P 116370-04-8P 116370-05-9P  
116370-06-0P 116370-07-1P 116370-08-2P 116370-15-1P 116400-41-0P  
116400-42-1P  
RL: AGR (Agricultural use); BAC (Biological activity or effector, except  
adverse); BSU (Biological study, unclassified); SPN (Synthetic  
preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of, as pesticide)
- IT 41052-75-9, 2-Chlorophenylhydrazine hydrochloride  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with chlorofluorobenzoyl chloride)
- IT 79455-63-3, 2-Chloro-6-fluorobenzoyl chloride  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with chlorophenylhydrazine)
- IT 365-34-4, o-Trifluoromethylphenylhydrazine  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with difluorobenzoyl chloride)
- IT 3107-34-4  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with difluorobenzoyl fluoride)
- IT 18063-02-0, 2,6-Difluorobenzoyl chloride  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with trifluoromethylphenylhydrazine)
- IT 13656-41-2, 2,6-Difluorobenzoyl fluoride  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with trifluorotolylhydrazine)
- IT **116389-03-8P 116389-04-9P**  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation and cyclization of)
- RN 116389-03-8 HCAPLUS  
CN Benzoic acid, 2-chloro-, 2-[3-chloro-5-(trifluoromethyl)-2-  
pyridinyl]hydrazide (9CI) (CA INDEX NAME)



- RN 116389-04-9 HCAPLUS  
CN Benzoic acid, 2-chloro-, 2-[3-chloro-5-(trifluoromethyl)-2-  
pyridinyl]hydrazide (9CI) (CA INDEX NAME)



=> => fil reg

FILE 'REGISTRY' ENTERED AT 18:35:32 ON 19 FEB 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 18 FEB 2004 HIGHEST RN 651705-73-6

DICTIONARY FILE UPDATES: 18 FEB 2004 HIGHEST RN 651705-73-6

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

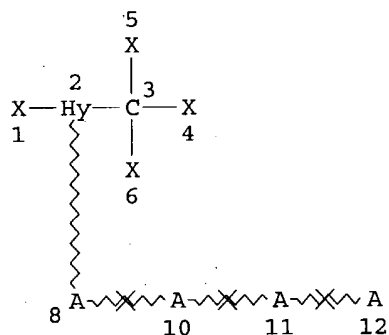
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d sta que l35

L12 ( 925618)SEA FILE=REGISTRY ABB=ON PLU=ON 46.156.30/RID AND NR>=2

L13 STR



#### NODE ATTRIBUTES:

NSPEC IS R AT 12

DEFAULT MLEVEL IS ATOM

GGCAT IS MCY UNS AT 2

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS E5 C E1 N AT 2

#### GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L14 8306 SEA FILE=REGISTRY SUB=L12 SSS FUL L13  
L20 STR

C~~X~~C~~X~~C~~X~~Cy  
@11 12 13 32

C~~X~~N~~X~~C~~X~~Cy  
@14 15 16 33

N~~X~~N~~X~~C~~X~~Cy  
@17 18 19 34

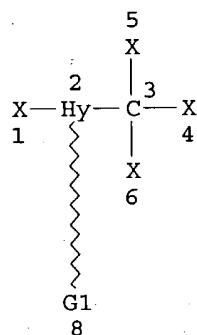
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@20 21 22 38

C~~X~~O~~X~~C~~X~~Cy  
@23 24 25 35

N~~X~~C~~X~~N~~X~~Cy  
@26 27 28 36

N~~X~~C~~X~~C~~X~~Cy  
@29 30 31 37

C~~X~~N~~X~~N~~X~~Cy  
@39 40 41 42



C~~X~~C~~X~~C~~X~~A  
@43 44 45 46

C~~X~~O~~X~~C~~X~~A  
@47 48 49 50

C~~X~~N~~X~~C~~X~~A  
@51 52 53 54

N~~X~~C~~X~~N~~X~~A  
@55 56 57 58

N~~X~~N~~X~~C~~X~~A  
@59 60 61 62

N~~X~~C~~X~~C~~X~~A  
@63 64 65 66

O~~X~~N~~X~~C~~X~~A  
@67 68 69 70

C~~X~~N~~X~~N~~X~~A  
@71 72 73 74

VAR G1=11/43/23/47/14/51/26/55/17/59/29/63/20/67/39/71

NODE ATTRIBUTES:

NSPEC	IS R	AT	46
NSPEC	IS R	AT	50
NSPEC	IS R	AT	54
NSPEC	IS R	AT	58
NSPEC	IS R	AT	62
NSPEC	IS R	AT	66
NSPEC	IS R	AT	70
NSPEC	IS R	AT	74

DEFAULT MLEVEL IS ATOM

GGCAT IS MCY UNS AT 2

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS E5 C E1 N AT 2

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 71

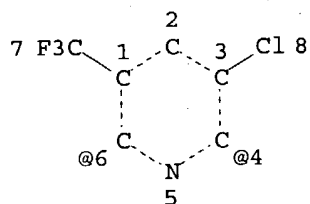
STEREO ATTRIBUTES: NONE

L22 4504 SEA FILE=REGISTRY SUB=L14 SSS FUL L20

L23 4339 SEA FILE=REGISTRY ABB=ON PLU=ON L22 AND 1/NC

L33 STR





G1~A~A~A~A~A  
21 9 10 11 12

VAR G1=4/6

NODE ATTRIBUTES:

NSPEC IS R AT 12

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

L35 3862 SEA FILE=REGISTRY SUB=L23 SSS FUL L33

100.0% PROCESSED 3979 ITERATIONS

3862 ANSWERS

SEARCH TIME: 00.00.01

=> d his

(FILE 'HOME' ENTERED AT 18:15:21 ON 19 FEB 2004)  
SET COST OFF

FILE 'REGISTRY' ENTERED AT 18:15:29 ON 19 FEB 2004  
ACT QAZI049B/A

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L1      STR
L2 (    925618)SEA FILE=REGISTRY ABB=ON PLU=ON 46.156.30/RID AND NR>=2
L3 (    1334)SEA FILE=REGISTRY SUB=L2 SSS FUL L1
L4      STR
L5 (    1166)SEA FILE=REGISTRY SUB=L3 SSS FUL L4
L6      STR
L7      STR
L8      38 SEA FILE=REGISTRY SUB=L5 SSS FUL (L6 OR L7)
L9      37 S L8 NOT 326807-66-3

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L10 0 S L9

FILE 'HCAPLUS' ENTERED AT 18:16:34 ON 19 FEB 2004  
L11 4 S L9

FILE 'HCAPLUS' ENTERED AT 18:16:51 ON 19 FEB 2004

FILE 'REGISTRY' ENTERED AT 18:17:29 ON 19 FEB 2004  
ACT QAZI049C/A

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L12 (    925618)SEA FILE=REGISTRY ABB=ON PLU=ON 46.156.30/RID AND NR>=2
L13      STR
L14      8306 SEA FILE=REGISTRY SUB=L12 SSS FUL L13

```

## ACT QAZI049A/A

-----  
L15 STR  
L16 ( 925618)SEA FILE=REGISTRY ABB=ON PLU=ON 46.156.30/RID AND NR>=2  
L17 ( 1334)SEA FILE=REGISTRY SUB=L16 SSS FUL L15  
L18 STR  
L19 1166 SEA FILE=REGISTRY SUB=L17 SSS FUL L18  
-----

L20 STR L18  
L21 50 S L20 SAM SUB=L14  
L22 4504 S L20 FUL SUB=L14  
SAV L22 QAZI049D/A  
L23 4339 S L22 AND 1/NC

FILE 'HCAPLUS' ENTERED AT 18:24:46 ON 19 FEB 2004

L24 727 S L23  
L25 323 S L23 (L) AGR/RL  
L26 215 S L24 AND AGR?/SC  
L27 382 S L25,L26  
L28 132 S L27 AND US/PC  
L29 118 S L28 AND (PD<=19990818 OR PRD<=19990818 OR AD<=19990818)

FILE 'REGISTRY' ENTERED AT 18:27:30 ON 19 FEB 2004

L30 4313 S L23 AND F>=3  
L31 4228 S L30 AND CL>=1

FILE 'HCAPLUS' ENTERED AT 18:27:50 ON 19 FEB 2004

L32 114 S L31 AND L29

FILE 'REGISTRY' ENTERED AT 18:28:25 ON 19 FEB 2004

L33 STR L6  
L34 50 S L33 SAM SUB=L23  
L35 3862 S L33 FUL SUB=L23  
SAV L35 QAZI049E/A

FILE 'HCAPLUS' ENTERED AT 18:31:21 ON 19 FEB 2004

L36 100 S L35 AND L29

FILE 'REGISTRY' ENTERED AT 18:32:21 ON 19 FEB 2004

L37 2023 S L35 AND NR>=3

FILE 'HCAPLUS' ENTERED AT 18:32:48 ON 19 FEB 2004

L38 42 S L37 AND L36  
L39 41 S L38 NOT 2001:136944/AN

FILE 'REGISTRY' ENTERED AT 18:35:32 ON 19 FEB 2004

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 18:35:42 ON 19 FEB 2004

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FILE COVERS 1907 - 19 Feb 2004 VOL 140 ISS 8  
 FILE LAST UPDATED: 18 Feb 2004 (20040218/ED)

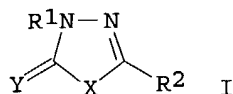
This file contains CAS Registry Numbers for easy and accurate  
 substance identification.

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L39 ANSWER 40 OF 41 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1988:524419 HCAPLUS  
 DN 109:124419  
 ED Entered STN: 14 Oct 1988  
 TI Preparation of five-membered heterocycles with three heteroatoms, as  
 pesticides  
 IN Luethy, Christoph  
 PA Hoffmann-La Roche, F., und Co. A.-G., Switz.  
 SO Eur. Pat. Appl., 59 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA German  
 IC ICM C07D271-10  
 ICS C07D413-04; C07D249-12; C07D285-12; A01N043-653; A01N043-82  
 CC 5-4 (Agrochemical Bioregulators)  
 Section cross-reference(s): 1, 28

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 270061	A2	19880608	EP 1987-117698	19871130 <--
	EP 270061	A3	19881117		
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL				
	DK 8705709	A	19880602	DK 1987-5709	19871030 <--
	ZA 8708811	A	19880727	ZA 1987-8811	19871124 <--
	HU 45850	A2	19880928	HU 1987-5338	19871127 <--
	JP 63154678	A2	19880627	JP 1987-303067	19871130 <--
	BR 8706464	A	19880712	BR 1987-6464	19871130 <--
	AU 8782036	A1	19880602	AU 1987-82036	19871201 <--
	AU 602372	B2	19901011		
	US 4943583	A	19900724	US 1987-126804	19871201 <--
PRAI	CH 1986-4785		19861201	<--	
	CH 1987-3571		19870916	<--	
OS	MARPAT 109:124419				
GI					



AB The title heterocycles I [R1 = (un)substituted Ph or pyridyl; R2 = substituted Ph; X = O, S, NR3; Y = S, O; R3 = Me, halomethyl, 1-propynyl] are prepared as insecticides and acaricides (no data). A mixture of 2-chloro-6-fluoro-N'-( $\alpha,\alpha,\alpha$ -trifluoro-o-tolyl)benzhydrazide, phosgene and toluene was refluxed for 16 h to give 5-(2-chloro-6-fluorophenyl)-3-( $\alpha,\alpha,\alpha$ -trifluoro-o-tolyl)-1,3,4-oxadiazol-2(3H)one. An emulsion concentrate comprised I 250, N-methyl-2-pyrrolidone 400, Ankopal N-100 75, and Ca dodecylbenzenesulfonate 25 g and Solvesso-100 to 1L.

ST pesticide oxadiazolone triazolone thiadiazolone prepn

IT Pesticides  
(heterocycles with 3-heteroatoms, preparation of)

IT 75-44-5, Phosgene 463-71-8, Thiophosgene 503-38-8, Trichloromethyl  
chloroformate 541-41-3, Ethyl chloroformate  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(cyclization by, of benzhydrazide derivative)

IT 107510-93-0P 107511-09-1P 107511-52-4P 116370-09-3P 116370-10-6P  
116370-11-7P 116370-12-8P 116388-94-4P 116388-95-5P 116388-96-6P  
116388-97-7P 116388-98-8P 116388-99-9P 116389-00-5P 116389-01-6P  
116389-02-7P 116389-03-8P 116389-04-9P 116389-05-0P  
116389-06-1P 116389-07-2P 116389-08-3P 116389-09-4P 116389-10-7P  
116389-11-8P 116389-12-9P 116389-13-0P 116389-14-1P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation and cyclization of)

IT 116370-10-6P 116370-13-9P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation and cyclization of, with Et chloroformate)

IT 107511-52-4P 116370-12-8P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation and cyclization of, with phosgene)

IT 116370-13-9P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation and cyclization of, with thiophosgene)

IT 116370-09-3P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation and cyclization of, with trichloromethyl chloroformate)

IT 107511-03-5P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation and methylation of)

IT 116370-14-0P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

IT 116369-81-4P 116369-82-5P 116369-83-6P 116369-84-7P 116369-85-8P  
116369-86-9P 116369-87-0P 116369-88-1P 116369-89-2P 116369-90-5P  
116369-91-6P 116369-92-7P 116369-93-8P 116369-94-9P 116369-95-0P  
116369-96-1P 116369-97-2P 116369-98-3P 116369-99-4P  
116370-00-4P 116370-01-5P 116370-02-6P 116370-03-7P 116370-04-8P  
116370-05-9P 116370-06-0P 116370-07-1P 116370-08-2P 116370-15-1P  
116400-41-0P 116400-42-1P  
RL: AGR (Agricultural use); BAC (Biological activity or  
effector, except adverse); BSU (Biological study, unclassified); SPN  
(Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES  
(Uses)  
(preparation of, as pesticide)

IT 41052-75-9, 2-Chlorophenylhydrazine hydrochloride  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with chlorofluorobenzoyl chloride)

IT 79455-63-3, 2-Chloro-6-fluorobenzoyl chloride  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with chlorophenylhydrazine)

IT 365-34-4, o-Trifluoromethylphenylhydrazine  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with difluorobenzoyl chloride)

IT 3107-34-4  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with difluorobenzoyl fluoride)

IT 18063-02-0, 2,6-Difluorobenzoyl chloride

RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with trifluoromethylphenylhydrazine)

IT 13656-41-2, 2,6-Difluorobenzoyl fluoride

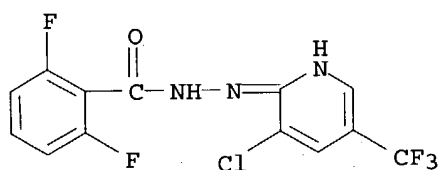
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with trifluorotolylhydrazine)

IT 116389-03-8P 116389-04-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation and cyclization of)

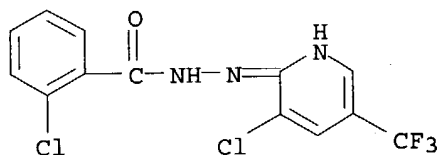
RN 116389-03-8 HCAPLUS

CN Benzoic acid, 2,6-difluoro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



RN 116389-04-9 HCAPLUS

CN Benzoic acid, 2-chloro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



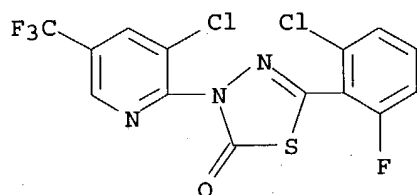
IT 116369-97-2P 116369-98-3P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of, as pesticide)

RN 116369-97-2 HCAPLUS

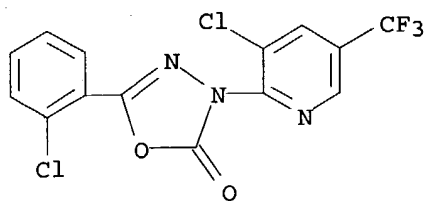
CN 1,3,4-Thiadiazol-2(3H)-one, 5-(2-chloro-6-(trifluoromethyl)-2-pyridinyl)- (9CI) (CA



RN 116369-98-3 HCAPLUS

CN 1,3,4-Oxadiazol-2(3H)-one, 5-(2-chlorophenyl)-3-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]- (9CI) (CA INDEX NAME)

see definitions  
claim 1



=>